NEWS AT HOME

Acetol Copolymer Plant Near 7 Adhosives Unit Sold 4 Arco and Carbide Combine 4 Butadiene Limit Mulled......4 Butene-1 Levels Off 5 C.H. Kilne Bought......4 Cal Bio Shifts Offering 23 Carbide Reorganizes 4 Clean Water Bli Passes 3 EG &G Sistes Lubricant Unit 18 Fatty Acid Venturo Davelops 5 Fertilizor Signals Mixed 5 GAF Rules Out Buyback...... 9 Hazardous Information Varies 25 Hercules' income Up. 19 IMC Acquires Assets 4 IMC. Cyanamid Complete Deal..... 9 McKesson Deal Okayed...... g Midland Chemical Acquires. 18 Nitrogen Dumping Case....... 32 Oll Dependency Feared 20 Specialty Chemicals to Rise 16 Yrade Provision Inadequate? 3 Visia Polymers Expands 5

Tell c

NEWS ABROAD

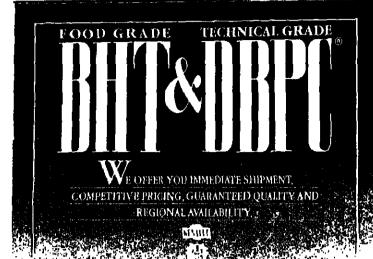
Burmah Oll Sets Sights	
Chemical Industry Warned	•
Degussa Sets UK Operation	
ECMRA Presents Award	
Ex-Im Charter Sought	
leniay Group Sells Stake	•••
Sulfur Shifts in Canada	

THE MADVETE

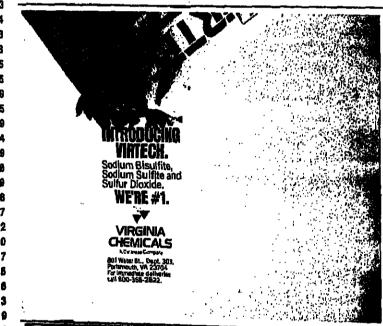
I DE MARKE	5
AGRICULTURAL CHEMICALS	29
ALIPHATIC ORGANICS	5,17
AROMATIC ORGANICS	18
COATING MATERIALS	33
ORUGS	2
FINE CHEMICALS	2
FLAVORING MATERIALS	34
HEAVY CHEMICALS	5,21
OILS, FATS & WAXES	1.
PERFUME MATERIALS	3
PLASTIC MATERIALS	3.

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two weeks ago, last month and
tast year. Chemical Prices Start on Page 36

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INSIDE CMR

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DRUG EXPORT: PMA seeks White House support of bill that would make it easier to export drugs. Compensation provision could cause problems. . Page 3

EUROPE'S FEEDS: US exports of propylene could make up for a shortfall of supplies in Europe caused by a switch to lighter feedstocks..... Page 5

LEGISLATIVE: Shifts in the eaderhsip of Senate committees important to the chemical Industry will occur regardless of which party wins Page 5

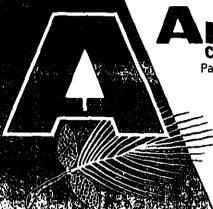
DZONE SHIELD: 'Holes' In the Earth's protective ozone shield may or may not be result pi atmospheric chemical breakdown products Page 7

CHEMICAL EARNINGS: Du Pont and Allied-Signal record gains, as do Celanese and American Cyanamid, Pennwait everses results Page 9

ACRYLO: Producers experience something of a market flipflop as strong demand for fiber and exports push up requirementsPage 7

MONTEDISON DROPS: The Big Italian company's pursuit of he troubled Swedish biotechnology company, Fermenta AB,

Omplete News Index on Back Cover



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CHEMICAL MARKETING REPORTER

Drug Export Action Pressed

Pharmaceutical Manufacturers Association is urging the White House to accept an omnibus drug and health authorization package that contains pharmaceutical exports legislation.

The bill, passed by both the House and the Senate in the final hours of the 99th Congress, would permit the export from the US of prescription drugs which have not been approved for marketing within the US by

"We strongly support the export provisions of the bill and urge the President to sign it," says PMA president Gerald Mossinghoff.

"This legislation, if signed into law, would strengthen the ability of US firms to compete in world markets and provide jobs here that otherwise would be created abroad, since only the US presently prohibits such exports."

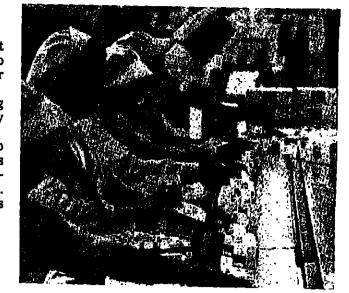
The package, however, faces an uncertain future at the White House because it also includes a provision to create a Federal "no fault" compensation system for victims of childhood vaccines.

The Reagan Administration has endorsed the drug export bill, but strongly opposes the vaccine injury compensation legislation.

Rep. Henry Waxman (D.-Calif.) the chief sponsor fo of the vaccine bill, said a growing number of parents are taking on the heavy financial burden of suing vaccine manufacturers on behalf of their injured children. Many states do not allow children to win lawsuits

Continued on Page 25

DRUG FINISHING IN ARGENTINA: US pharmaceutical makers maintain that under current law they must either build plants abroad or license to foreign producers.



Montedison Drops Pursuit Of Swedish Biotech Firm

Montedison SpA's efforts to acquire Fermenta AB. the Swedish biotechnology firm, came to an abrupt end last week, with the Italian chemical giant blaming Fermenta's founder and chief executive for the failure.

Montedison said it broke off talks with Fermenta in part because of agreements reached by Refaat El-Sayed, the Fermenta founder, to sell key company assets in the US to other parties, including Monsanto Com-

Earlier this month, Fermenta reached agreements in principle to sell its Fermenta Plant Protection subsidiary to Monsanto, and two other US subsidiaries to an undisclosed

Giorgio Porta, managing director of industrial policy at Montedison, called the agreements a "surprising thing," complaining that Montedison had not been informed about the sale of the subsidiaries, which Montedison had planned to integrate with its own opera-

Montedison also complained last week that Fermenta refused to provide financial information necessary to carry out the acquisi-

Fermenta countered that Montedison was seeking confidential information which would be illegal to disclose under Swedish law, but Montedison claimed that a Swedish "expert" in such matters assured Montedison of the legality of the request. A Montedison identify the expert.

Under a preliminary agreement reached in July, Montedison was to purchase Mr. El-Sayed's 76.5 percent voting control of the company, for \$340 million.

Fermenta's unions, however, expressed concern about a Montedison takeover, so Montedison agreed in concept to a plan under which it would initially acquire only part of Mr. El-Sayed's holding in Fermenta. After a transition period, during which Mr. El-Sayed would remain as chief executive, Montedison would acquire the remaining shares.

Mr. El-Sayed subsequently sold half of his 6 million A shares in Fermenta to three separate Swedish institutions. Two were prepared to sell back their Fermenta shares, but a third - Procordia AB - reportedly acquired the shares for strategic purposes. Pro-cordia is also said to hold an option to acquire an additional 3 million A shares.

Montedison chairman Mario Schimberni told a Montedison shareholders' meeting early last month that the company would pursue an "alternative" acquisition if an agreement were not reached by November assuring Montedison eventual control of

The Montedison chairman said at the time that the company had an "equivalent" acqui-sition on standby, but last week, the company said only that it was holding talks with US and European firms about "possible acquisi-tions and joint ventures" in the biotechnology

Chemical Marketing Rep@rter...

VOLUME 230

Peroxide Makers Look **To New Applications**

North American hydrogen peroxide producers are looking at new applications to fill a wide supply and demand gap that is developing as new capacity comes on stream. The broad range of potential new markets seems to ensure the gap will be filled.

The addition of new capacity, however, is a very real and formidable obstacle. Du Pont Canada expects its 80-million-pound-peryear Maitland, Ontario, plant will be on stream by January. Degussa Corporation says its equally large plant will be completed some time in the Spring. Lastly, Oxychem Canada, a venture involving Atochem and Liquid Air of France (initial business) Liquid Air of France (jointly known as Oxysynthese) and the marketing network of C-I-L is scheduled to complete its 44-million-pound-per-year facility by September of next

At least some of the new capacity is intended for overseas export. Degussa, for instance, expects to export at least 10 million ounds in its first year of operation. The material will go to markets such as the Far East, Africa and South America that are now serviced by the company's European facilities.

In addition, imports into the US by Degussa and into Canada by Oxysynthese should be backed out over the course of next year as the two companies', North American facilities

For the most part, however, producers are looking to new or expanded markets to fill the supply gap. Most prominent, and the one producers expect to kick in first, is the pulp and paper industry.

Producers say several new thermome-chanical and chemimechanical pulping (CTMP) operations are or will soon come on stream in Canada.

Observers say paper makers are moving to the CTMP method because of its high pulp yields: 90 percent of the tree is utilized as. posed to only 50 to 55 percent in traditional

chemical methods.

However, according to peroxide makers, to achieve high brightness paper grades without overly degrading fiber structure, hydrogen peroxide is necessary in the bleaching stage of a CTMP process. Sodium hydrosui-

fite is used, they say, but mainly in making medium brightness grades.

While CTMP pulping will account for the bulk of pulp and paper growth, Kraft pulpers are also expected to increase peroxide use in the next few years. Degussa, for instance, feels Kraft pulp makers in the Southeast will double their peroxide use next year, coming albeit, from a fairly small base.

The company notes that hydrogen peroxide can be added to a Kraft pulping process at a number of different stages without any significant changes in equipment. Moreover Degussa feels the pulp and paper industry in the Southeast has a good long-term outlook because the warmer temperature ensures a

Continued on Page 30



HYDROGEN PEROXIDE PLANT. Three new ones coming onetream next year will upset supply-demand balance.

October 27, 1986 a

CHEMICAL MARKETING REPORTER

Superfund Bill Reaction: Relief Found in Most Quarters

Lawmakers, the chemical industry and environmental groups expressed mostly relief last week as they hailed the signing of the superfund reauthorization bill (CMR 10/20/86, pg. 3) saying it is a bistoric step toward a safer, healthier

"This is the most significant piece of envinental legislation this decade," said Sen. Frank Lautenberg (D-N.J.). "It's a great day New Jersey and other states striving to lean up toxic waste sites."

The path to enactment has been long and mes difficult, but it's extremely gratiing to have achieved such a significant result," Rep. John Dingell (D-Mich.), added. "I will be watching closely to see that the Reagen Administration utilizes its new powers gan Administration utilizes its new powers the gets on with the desperately needed

deanup of hazardous waste."

The legislation, which will provide \$9 billor of the cleanup of toxic waste dumps and taking underground storage tanks, includes and mark provisions concerning community ndmark provisions concerning community ght-to-know, community response to enviamental emergencies and tough standards and schedules for cleanup.
Officials in the Treasury and Energy Desiments had urged President Reagan to

broad-based corporate tax and its high levy on the petroleum industry.

But in light of the legislation's overwhelming support in Congress, the President chose to heed the advice of Environmental Protection Agency Administrator Lee M. Thomas, who had warned that a veto would end the cleanup program and throw his agency into

"The bill's financing has some real con-cerns." said President Reagan, "but the health and safety of Americans is among the highest priorities of government, so we will

He said he was assured by Mr. Thomas that EPA will spend only what is necessary to accomplish the objectives of the program, and by Senate Majority leader Robert Dole (R-Kan.) that Congress will not increase the superfund tax or use it to pay for other pro-

Environmentalists, who have complained that the administration has completed only six cleanups during the first five years of the superfund program, said the new law ensures that EPA now has the resources to do the job.

"There should be no more excuses for inac-Continued on Page 27

A bipartisan group of 70 members of Congress have urged Energy Secretary John Herrington to withdraw a controversial proposed rule that would allow Department of Energy to exempt mixed chemical and radioactive waste generated at its defense facilities from Federal and state regulations. "This proposed rule would allow DOE to continue dumping some of its mixed waste directly into the ground, even though

this practice has resulted in serious contamination of the groundwater and surface water at some of DOE's facilities." says Rep. Mike Synar (D-Okla.), chairman of the House Government Operations subcommittee on environment, energy and natural resources.

He also notes that the private sector, for the most part, has been prohibited from disposing of similar waste in this manner.

Rep. Synar, who initiated the letter to Mr. Herrington, first protested the rule when it was proposed by DOE last November. A public hearing held by his subcommittee last July revealed a number of problems resulting from the way officals at DOE facilities were attempting to implement the rule even

though it has not yet been adopted.
"At our hearing, we found that a large burial ground at the Savannah River Plant in South Carolina contained a lot of very nasty chemical hazardous waste as well as radioactive waste, including 10 tons of mercury, 10,000 gallons of fluids containing toluene, xylene and other hazardous chemicals, almost 200 pounds of PCB's, and 3,300 gallons of waste oils.

"DOE had known for some time that the groundwater beneath the burlaiground was contaminated with mercury above drinking Continued on Page 26

Carbon Dioxide Plant On Way for Airco

A new \$4 million carbon dioxide plant is being built by Airco industrial Gases in Baltimore, Md. Slated for May 1, 1987 start-up, production capacity of the new plant will be 180 tons per day of liquid CO2.

The Baltimore plant will be the eleventh iquid CO2 facility owned and operated in the US by Airco. Liquid product produced at the new site will be sold in the Northeast US, primarily for food freezing or chilling, beverage carbonation, and a variety of industrial

The new plant is being built next to SCM Corporation's titanium dioxide facility from which Airco will draw its raw product for liquid CO2 production. Airco has contracted with Plant Process Equipment, Inc., League City, Tex., for plant construction.

Carbide Set to Build Air Separation Plant

The Linde Division of Union Carbide Corporation says that it will build an \$11.2 million air separation plant in Marletta, Ohio, with construction slated to begin in early 1987. The state-of-the-art facility will produce up to 300 tons per day of nitrogen, oxygen and argon, according to E.G. Hotard, vice-president of Linde Bulk Industrial Gases. It will incorporate the latest energysaving technology to operate with approximately 35 percent greater efficiency thatn

The new facility will be constructed adjacent to an Elkem Metals plant, which it will provide with gaseous oxygen via pipeline," Mr. Hotard says. In addition to supplying product to Elkem, the new plant will produce oxygen, nitrogen and argon in liquid form for other Linde customers in southern Ohio and West Virginia.

"These customers are currently being served by cryogenic transports that deliver uid oxygen from other air separation facilities," he notes. "The Marietta plant will make it possible for us to provide even better supply reliability. It also will give Linde the capacity to serve the future growth needs of the marketplace, and to meet the increasingly stringent quality requirements of our

Strontium Seen Strong Despite Competition

In spite of recession and competition from alternative materials, demand for strontium continued its strong growth in the first half of the 1980's, according to Roskill Information Services, Ltd., of the UK.

In terms of strontlum carbonate, demand is expected to rise from 94,300 metric tons in 1985 to 105,000 in 1990 and around 27,000 metric tons by the turn of the century, Roskill says in a new report on the metal. The rise of Mexico as a producer in the early 1970's has been followed by the even higher rise of output in Turkey and Spain, and more recently by considerable growth in Iran, Roskill com-

Carbide Specialty Polyolefins Unit Open for Business in New Jersey

Last week, Union Carbide Corporation of- velopment laboratories, information sys-



R&D IN NEW CAB: A Union carbide Specialty Polycielins technician tests resin for tensile strength.

ficially opened a new technology and opera-tions center for its "Unipol" Specialty Poly-olefins Division in Somerset, N.J.

sistance, product and safety data, and shipping and other information.

In addition to polymer evaluation, wet and analytical chemistry labs, the new Weston Canal Road unit features extensive high material evaluation facilities including laser-read detectors. It includes benchthrough intermediate-scale compounding faas well as pilot-scale mixing lines, film and rotational molding equipment.

on polyethylene, the largest-volume poly-olefin and the most widely used plastic in the

power and industrial cable and photodegradable packaging applications. They are also

Continued on Page 57

Spokesmen for the company feel that this consolidation of research with administrative and sales departments will offer customers faster access to technical service as-

pressure pipe testing facilities, advanced rheology, fire and electrical test labs and raw

Research at the facility currently centers world. Union Carbide has been involved with this market since its infancy in the early

Researchers at Somerset are focusing on

October 27, 1916



Paul H. Williams, who has been named execu-tive vice-president of Celanese Canada Inc. He was most recently technical director of Celanese Textile Fibers in Charlotte, NC.

Damon Biotech Seeking Partner

Damon Biotech, Needham Heights, Mass., last week said it is engaged in "serious discussions with a number of major multi-national pharmaceutical firms" relating to the development and marketing of the tissue plasminogen activator t-PA.

Currently, these discussions envision that Damon Biotech would manufacture t-PA using its proprietary technologies and a phar-maceutical firm would market the product and have primary responsibility for obtaining necessary regulatory approvals in specific geographical areas.

Plasminogen activators are a new class of biological products which show great promise in the treatment of cardiovascular diseases. Damon Biotech's t-PA is produced by the Company's proprietary "Encapcel" and cellular enhancer systems. Test results from preliminary studies of Damon Bio-Continued on Page 28

Miwon Plans to Build **Lysine Plant in Korea**

Miwon Inc., Seoul, Republic of Korea, says it plans to construct a \$30 million 1-lysine monohydrochloride production plant with an annual capacity of 20,000 metric tons in Kusan city, Chollabuk-du Province, Republic of Korea. Construction should be completed in September 1987 and has already started.

Miwon currently operates a plant in Busan City, Korea, with 10,000 tons of capacity.

Miwon and three Japanese companies -Ojinomoto, Kyowa Hakko and Toray — are the world's major producers. Miwon now exports 90 percent of the product. The new plant will export about \$50 million of the feed additive annually which the company says, will increase Miwon's share of the international market from 10 percent to 20 percent.

Clean Water Bill **Urged by Lawmakers**

Lawmakers and environmental groups called on President Reagan last week to promptly sign the reauthorization of the Act, which salled through the House by a 408-0 vote and was passed unant-

mously by the Senate, 96-0.
While House budget director James Miller is recommending that the President veto the measure because it is a "budget buster" that will increase the Federal deficit.

The legislation, which calls for an expenditure of \$18 billion over the next ten years for sewage treatment facilities, was delivered to the White House Friday, glying the President until November 5 to sign or pocket veto the

Chemical Marketing Rep@rter

Founded October 18, 1871, by William O. Alison
Directed 1900-1942 by Harry J. Schnell
Schnell Publishing Company, Inc.
100 Church Street, New York, N.Y. 10007-2694
(212) 732-9820. Telex Number; 226113 CMRUR.
Cable Address: Reporter, New York
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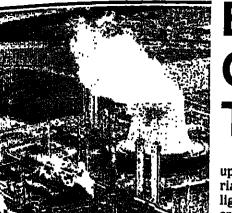


CHEMICAL MARKETI

CHEMICAL MARRETING #E
PORTER IRSN-090-800 Vol.
230, No. 17, October 97, 1984
Published weekly on bloody
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UK ETHYLENE CRACKER: Switch to lighter

Acrylonitrile: Fiber Position Causes Change

Acrylonitrile producers are experiencing something of a flip-flop in the marketplace. After several years of weak domestic demand for acrylic fiber and strong export volumes, the position has been somewhat reversed. US acrylic fiber makers are in the midst of a strong revival, while the world market is now

long in supply and weak in pricing.
US acrylic fiber producers have been helped by higher priced imports, brought on y the weaker dollar, and by fashion trends favoring acylic fibers. The producers have helped themselves by trimming capacity in the past two years by 10 percent.

The fashion emphasis has been on lightweight, brightly colored sweaters made from acrylic. And while demand for acrylic sweaters is up significantly, other fleecewear products, such as sweatsuits, are performing well.

These factors have helped produce a strong domestic acrylic fiber market. Another important factor, one source says, has been increased productivity at the textile mills. The effect has been an 18 percent upturn in domestic acrylic and modacrylic fiber shipments through the first nine months of 1986, according to the Textiles Economics

Continued on Page 18

Thalidomide Bill Aiding Ohio Man Escapes Veto

A private relief bill that will give an Ohio man born with deformed legs an opportunity to prove in court that he was the victim of the drug thalidomide and to seek damages from the government was signed into law by President Reagan last

The bill, which waives the statute of limilations to allow Steven M. McKenna of Cleveand to sue the Federal government for money damages for congenital defects, was Department reversed its position and recommended that the President sign the measure into law.

Mr. McKenna was born with short stumps or legs and appendage-like pieces of excess skin for feet that are the familiar trademark of halidomide babies. The drug, a sedative, was taken off the market in 1962 after it was shown to be capable of causing severe deforoilies in infants whose mothers took it.

Rep. Edward Feighan (D-Ohio), the House sonsor of the bill, said his office was told by lattee Department officials two weeks ago that they were recommending a veto.

Europe May Draw On US Propylene To Meet Shortfall

US exports of propylene could make up for a shortfall in supplies of the material in Europe as a result of a switch to lighter feedstocks in European ethylene

"With propylene prices being up to 0.9 times higher than those for ethylene at the moment, there must be a natural tendency for Western Europe to attract propylene imports, particularly from the US," Howard Browning of Imperial Chemical Industries PLC told this year's conference of the European Chemical Marketing Research Association in Antwerp, Belgium.

US ethylene crackers are producing 1 miliion to 1.5 million tons extra of propylene annually because by contrast, they are using a higher quantity of heavier feedstocks, mainly because of lower oil prices.

But Mr. Browning, aromatics marketing manager at ICI's petrochemicals and plas-tics division, thinks that any surge of US Im-ports into Europe will not last for long because the present high price advantage of propylene over ethylene is likely to be short-

The supply/demand picture in recent

Despite doomsayers, there is a turn-

around in US industry competitiveness,

says Union Carbide chairman Warren M.

In remarks before the Chicago Eco-nomic Club, Mr. Anderson said, "I think

you could go through almost every one of

our industries, from shoes, to construction

equipment, to textiles to machine tools,

and find, in the midst of tremendous and

unrelenting competitive pressures, com-

panies doing what it takes to become win-

ners again. Paying more attention to qual-

ity, paying more attention to customers,

After the recession of the early 1980's

devastated its major markets, he noted.

the chemical industry, including Union

Carbide, embarked on a massive program

of rationalizing and restructuring that has

changed not only the shape of the industry,

The US plastics industry is now con-

suming organic and inorganic pigments

and dyes totalling nearly 500 million

pounds valued at over \$450 million, ac-

cording to business consulting firm C. H.

Kline & Co., Fairfield, N.J. This market

value is up more than 100 percent from

1977. In fact, this is considerably higher

than was expected at the beginning of

the study, according to J. Jeffrey Cianci.

million, is by far the most popular pigment,

accounting for 54 per cent of total dollar sales. Carbon black accounted for 108 million

pounds in consumption but only \$35 million in

and inorganic pigments were valued at \$82 million and \$78 million, respectively. Finally, dyes represented a \$20 million market.

Of the organic pigments, diazo condensates, phinalocyanine blue, pervienes and quinacridones represented the largest markets, together accounting for 62 percent of

the value of this category. In addition, day-

light fluorescents, diarylides, permanent red

2B, and phthalocyanine green each had mar-

The categories of other organic pigments

Titanium dioxide, at 330 pounds and \$250

senior consultant at Kline.

market value.

'When we turn to innovation, flexibil-

Pigments and Dyes in Plastics

More Than Doubled, Study Finds

paying more attention to costs."

but its prospects.

UCC Chairman Sees Gains

years shows that when propylene prices rise they soon decline as supplies are increased.

A major factor in the propylene market is that supply is not directly linked to demand because the material is a byproduct of ethylene production and refinery operations. Only when the price is right do some suppliers enter the market.

In mid-1985, when propylene was considered to be in short supply, the price relative to ethylene rose

"This attracted a large volume of propylene, both from the refineries and from imports," Mr. Browning explains.

"Inevitably a surplus arose, and the price account the major oil price changes and the relative strength of ethylene at that time." Supplies were reduced, causing propylene

prices to rise once again. "(This) reflects the relative ease with which propylene supply can be encouraged or choked off by its pricing, whether from efineries or from imports into Europe," he

"It also reflects the dynamics of a market where the product is not really made for its Continued on Page 21

ity, technological change for comparative

advantage," Mr. Anderson noted, "we are

challenging our overseas competitors on

our terms, not theirs. We now understand

that our strength is moving, by means of

technology and innovation, to the next

generation — the new product that makes

its predecessor not better, but obsolete.

The prospect of a stronger US economy,

he said, is why foreign companies are ac-

tive in this country — building plants, stepping up investment and acquisitions, and joining in co-ventures with American

"The point is that we do have strengths,

that our decline is not inevitable, but in-

stead is pointing us in new and promising

directions," Mr. Anderson stated. "Man-

agement is learning that its real role is not

in solving problems, but in creating the

kinds of organizations that can solve their

42 percent of the total market value.

Chromium titanate, high temperature metal complexes, iron oxide, and molybdate orange each had markets of over \$5 million.

The plastics colorants business is quite

complex and difficult to track, Kline says.

Pigments and dyes are sold to concentrate

formulators, resin suppliers, and plastic fab-

ricators. Formulated colorants now account

for the majority of the colorants purchased

by the plastics industry. Pellet concentrates

though liquid colorants, pre-colored resins.

and other dispersions are growing rapidly in

Rationalization during the past decade has

resulted in consolidation and acquisition

among both basic colorant and formulated

colorant suppliers. The industry is now poised for significant growth along with con-

says. A continued trend towards the use of

formulated colorants will increase value-

added and provide more opportunities in the

ing growth in the plastics industry, Kline

own problems

popularity.

Senate Shifts Are Expected After Election

Regardless of the outcome of the 1986 elections, significant changes are expected to occur in the chairmanships of several Senate committees that are responsible for legislation that governs the chemical and pharmaceutical indus-

Should the Republicans maintain their current majority, most of the changes would stem from the retirement of Sen. Barry Goldwater (R-Ariz.), whose departure from the Armed Services Committee will likely result in new leaders at the Judiciary and the Labor & Human Resources committees.

The current Judiciary Committee chaircollapsed in early 1986, even after taking into man, Sen. Strom Thurmond (R-S.C.), has Indivices post. Sen. Thurmond's abdication, plus the retirements of Sens. Charles McC. Mathais (R-Md.) and Paul Laxalt (R-Nev.) would clear the Judiciary chairmanship for Sen. Orrin Hatch (R-Utah).

Sen. Hatch has not stated his intention, but many Capitol Hill observers anticipate such a move. Sen. Robert T. Stafford (R-Vt.) is next in line for the Labor & Human Resources chair, but he is expected to opt for his current position as chairman of the Environment & Public Works Committee.

Next in line at Labor & Human Resources is Sen. Dan Quayle (R-Ind.), who like Sen. Hatch is a conservative and a strong ally of

However, if the Republicans fail to retain control of the Senate, Sen. Joe Biden (D-Del.) would take over at Judiciary and Sen. Edward Kennedy (D-Mass.) would become chairman of Labor & Human Resources.

Sen. Kennedy worked with Sen. Hatch to move the drug export amendments through Congress this year after opposing the legislation in previous years.

The key change at the Judiciary Commit-Continued on Page 35

Toxic Chemicals Problem in River That Caught Fire

The National Wildlife Federation (NWF) and the Ohio Wildlife Federation (OWF) last week released a comprehensive study of water quality in Ohio's Cuyahoga River that found widespread pollution in the river by toxic sub-

The two-year Cuyahoga River Study, conducted by NWF and OWF, examined the sources and effects of toxic substances in the kets of over \$5 million. Of the inorganic pig-Cuyahoga River and its major tributary, Tinments (not including titanium dioxide), cad-miums and chromes together accounted for

The study finds that toxic materials in the Cuyahoga seriously degrade water quality and limit fish and other aquatic life. Moreover, the study reports that the regulatory programs intended to control the discharge of toxics to the river system are generally

The study makes sweeping recommendations for control of toxic discharges in Ohio and for improving water quality in the river

In 1969 the Cuyahoga attracted national ing to the report, the kind of pollution that caused the Cuyahoga to catch fire no longer exists, but pollution by toxic substances has become a hazard. Among these toxics are cyanide, benzene, and trichlorethylene. Other highlights of the report by NWF and

OWF are: • Over 700,000 pounds of toxic metals and 90,000 pounds of toxic organic compounds are, discharged into the river and its tributarles each year by the major industrial and

municipal wastewater dischargers. Major industrial and municipal discharg Continued on Page 16

plastics colorants business, it's predicted. October 27, 1986

CHEMICAL MARKETING REPORTER

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When you specify VAM vinyl acetate from U.S.I., you know you'll get our highly reactive monomer for quality water-reducible paints, coatings and adhesives.

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million pounds of capacity) to assure your supply of VAM.

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The Little Chemical Gian



2-nitropropane, representing Grace's first step into this specialty area. Expenditures for the ni-troparaffins facility represent the company's largest single investment in specialty chemicals.

Specialties No Panacea, Says EniChem Executive

could be making a mistake by moving mountable. into specialties in an effort to get themselves out of trouble, according to of EniChem International SA, who told members of the European Chemical Marketing Research Association meeting in Antwerp, Belgium, that it is a popular myth that specialties provide the answers to the problems of the bulk petrochemical sector.

"This is fine for those companies that possess the skills needed to make specialized niches profitable," he explains.

"Those that do not have the specialty culare are in danger of following the leaders only to find that they are too late. Their presence alone could spark off the familiar chain reaction — an overcrowded segment, overcapacity and the collapse of margins."

Companies instead should opt more for oint ventures and other cooperative projects which means they will not have to withdraw entirely from their traditional businesses.

"Actions such as joint ventures, tolling greements, and portfolio trading should be the stock in trade of the enterprising chemical industry manager of the 1990's," he says. "The joint venture route has not yet been fully explored -1 suspect because managers

Commodity chemical companies tend to see the complexities as being insur-

Joint ventures enable a company to mainlain a presence in a sector, while cutting Charles Doscher, chief operating officer facilities being closed down and overheads costs substantially as a result of duplicated reduced. Similarly research and development can be shared.

> He cites EniChem's own joint ventures with Hocchst in low-density polyethylene and ICI in polyvinyl chloride.

Under a deal two years ago with Hocelist, EniChem had leased for 10 years an LDPE plant of the German company's subsidiary Rubrehemie at Oberhausen, Germany. Hoechst has been able to get out of LDPE without writing off expensive plant and Enithern has gained a northern European production facility without having to build additional capacity.

The initial problem with the agreement with ICI, which only came into operation this month after a year's planning, was that with both companies PVC was at the front end of a highly-integrated upstream production sys-

The answer was to leave the assets with the parents while pulling the marketing and R&D in the hands of a joint company — European Vinyls Corporation (EVC).

The European bulk chemical sector still needs to prime a further 10 to 20 percent of

Continued on Page 20

FIFRA Reauthorization Dies in 99th Congress

The effort to substantially overhaul provided for a 15-year subset, a position re-marker of the for the luctantly supported by the chemical industhe Federal pesticide control law for the first time since 1978 died in the final hours of the 99th Congress as several senators refused to accept a compromise package of amendments approved

The two chambers passed separate veralons of legislation to reauthorize and reform the Federal Insecticide, Fungicide & Rodenlicide Act, but as the session came to a close on October 18, the House and Senate were still at odds over provisions dealing with many major issues, including patent term testoration, data compensation, liability,

The National Agricultural Chemicals Association said it found the final House offer acceptable, including a limit on the long-Sought patent extension provision, but Sens. doward Metzenbaum (D-Ohio) Dave Duren-Mont.) all placed in and John Melcher (D-on data compensation levels set by arbitration. Mont.) all placed "holds" on the measure, in effect killing the legislation.

Under the Senate bill, the patent extension Movisions would have expired after severn Years. Instead of this seven-year sunset, the tse compromise amendment would have

But Sen. Metzenbaum, the author of the seven-year sunset provision in the Senate bill, refused to budge. When a member of the House Agriculture Committee approched the Senator on the issue, "Metzenbaum said he wanted seven years and would not accept seven years and one day," reports an industry

Sen. Durenberger said he was not satisfied with House provisions on groundwater, liability and uniform tolerances, and was prepared to offer counter proposals that proba-bly would have been rejected by the House.

Sen. Melcher objected to the House's decision to delete an amendment he added to the Senate bill capping the amount of compensation that must be paid when a pesticide producer uses another company's research data to register a pesticide.

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Sen. Melcer proposed the cap on behalf of generic pesticide makers who would like to keep compensation levels as low as possible.

Ozone Shield 'Hole' Puzzies Researchers

A US research team says it appears to a National Science Foundation news conozone radiation shield above the South Pole is not due to sunspots or wind currents, but the theory that it is caused by man-made chemical pollutants may be ncorrect, also.

The Antarelle discoveries, confirmed earlier this year, have set off a flurry of scientific and governmental activity because ozone is necessary to support life, and the 'hole" was the first concrete evidence of damage to the ozone layer despite more than a decade of warnings from some scientists.

The sharp drop in ozone levels appears to oe occurring over the North Pole as well, another study has shown.

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The scientists, reporting via satellite from the US base at McMurdo Station, Antarctica - rodt's parent company.

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Methanol From Coal: Auto Eil Is Planned

Looking toward next year's congres- point in the direction of clean-burning sional session, Sen. Jay Rockefeller (D- methanol, W. Va.), says he will reintroduce legislation aimed at encouraging US automobile manufacturers to develop cars capable of running on coal-based

Sen. Rockefeller, who was involved in negotiations to produce a compromise methanol-vehicle bill in the final days of the just completed session, says he is confident longress will adopt his legislation next year.

"Promoting the use of methanol is not only in the best interests of West Virginia coal it's a crucial element in this country's fight to end our dependence on imported oil," the

"We need an all-out push to perfect a transportation fuel that takes advantage of this country's plentiful supplies of coal. Amer-

It's unfortunate that we weren't able to pass a methanol bill during this Congress, but we've laid the groundwork for quick action next year, Sen. Rockefeller says.

He says the bill contains the "powerfu incentives" that US auto makers need to begin producing methanol-powered cars. The measure would allow auto makers some reliet from a Federal fuel standards law if they begin producing cars capable of running on methanol — a provision he says is worth tens of millions of dollars to American car mak-

'Without any cost to the government, my bill seeks to break the so-called 'chicken and -egg' problem that's plagued the development of methanol," says Sen. Rockefeller.

He notes that auto companies currently will not build cars cabable of running on ica's declining domestic supply of oil and our methanol because the fuel is not available at growing concerns about gasoline-polluted air neighborhood service stations.

Conrail Stock Offering Welcomed by Industry

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of a \$12 billion deficit reduction package price. passed by Congress shortly before adjourn-Chemical Manufacturers Association op-

posed the Reagan Administration's original plan to merge Conrail with Norfolk Southern. another major Eastern freight carrier.

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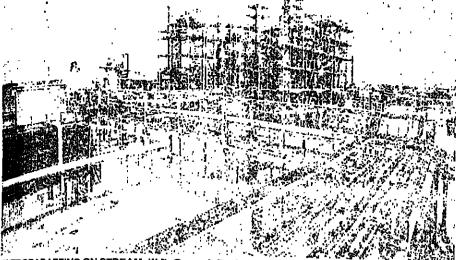
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plant at Deer Park, Tox. The plant will produce nitromethane, nitroethane, 1-nitropropage and 2-nitropropage, representing Graco's first step into this specialty area. Expenditures for the nitroparalfins facility represent the company's largest single investment in specialty chemiculs.

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News Capsule

Dexter Buys RPI

Dexter Corporation has completed the acquisition of Research Polymers Intertional Corporation of Grand Prairie, Tex., for an undisclosed amount of cash. RPI produces thermoplastic polyolefin compounds, with annual sales expected to reach approximately \$35 million this year. RPI will continue to operate under current management as a division of Dexter's specialty materials group.

Sterling Sells Unit

Sterling Drug Inc. says it has reached greement to sell substantially all the asets of its Hilton-Davis Chemical Company subsidiary to H.D. Acquisition Corporation, a newly-formed corporation owned by Philip E. Karnins, who has interests in plastics, chemicals and machinery.

Du Pont Plans Facility

Du Pont Tau Laboratories, a manufacturer of photomask products used to make integrated circuits, is building a new photomask manufacturing plant near Austin, Tex., to meet demand from the semiconductor industry in the Southwest. The 30,000-square-foot facility is expected to be in operation in mid-1987.

Air Products Sets Date

Air Products & Chemicals Inc. says it will begin production of high-density olyethylene "Airopak" barrier containers at a new facility in York, Pa., by January 1987. The company will market the containers to producers, packagers and istributors of paint-related solvents, pesicides cleaning compounds, auto addiives and other petroleum or hydrocurbon-based products in the Northeast.

Airco Builds Plant

Airco Industrial Gases is building a new 4 million carbon dioxide plant in Baltimore, Md. The 180-ton-a-day plant is stated for startup in May 1987. Liquid product produced at the new site will be sold in the Northeastern US primarily for food freezing/chilling, beverage curbona-lion, and a variety of industrial applica-

IDC Opens Laboratory

International Dyestuffs Corporation s opened a new warehouse and cusmer service laboratory in Johnstow N.Y., to service the company's dyestuffs and pigment markets in the Northeast. IDC supplies colorants to the textile, pa-per, leather, ink and plastics industries.

First Miss. Unit Expands

Quality Chemicals Inc., a wholly-owned subsidiary of First Mississippi Corporation, plans to double its current plant capacity by the end of next year. Quality Chemicals is a custom manufacturer of pharmaceuticals and fine organic chemi-

Celanese Methanol Moves

Celanese Canada, Inc., and Alberta Gas Chemicals, Ltd., completed the first-ever shipment of methanol by pipeline last week from Alberta to Eastern Canada. The mathematical statement of The methanol was shipped through the Cochin Pipeline System, which is operaled by Dome Petroleum, Ltd., through its affiliate Cochin Pipe Line, Ltd., on behalf of Dow Pipeline, Ltd., AG Pipeline), Ltd., Petro Canada, Inc., and shell Canada Resources, Ltd.

farner-Lambert Sues

Warner-Lambert Company, Morris Plains, N.J., has filed suit in US District Court for the Northern District of Illinois
against My-K Laboratories, Inc., Skokie, charging unfair competition by alsedly imitating the trade appearance of Warner-Lambert's "Benylin" cough symp. My-K Laboratories formerly operated under the name Bay Laboratories



tive vice-president of Warner-Lambert Company. He was proviously senior vice-presiden and chief financial officer.

Norsk Hydro To Go Ahead On Wagnesium

Norsk Hydro formally announced its decision last week to build a \$290 million (US funds) magnesium plant in Quebec, Canada, "I am pleased to announce that Norsk Hydro has made the final decision to build a magnesium plant in Canada," said Mr. Torvild Aakvaag, president of the Norwegian company, the largest in Norway, at a press conference in Mont-

The project had previously been recommended by the company's board of directors, and has now been finally approved by the Norsk Hydro corporate assembly.
The plant will be built in the Becancour

Waterfront Industrial Park on the St. Lawrence River, Construction is scheduled to begin in the spring of 1987, and will be completed in the first months of 1989. The plant will operate with Canadian management and staff

The Becancour plant will have an annual Continued on Page 28

USX Studies Restructuring; Icahn Bid Expires

The \$31-per-share bid by Carl Icahn for USX Corporation (formerly United States Steel Corporation) expired last Thursday without any word from the New York financier and corporate

raider about his further intentions. Officials of USX had met with Mr. Icahn during the week. Neither party divulged anything about these conversations, but Mr. Icahn earlier had stated that if what he termed his friendly offer for the diversified steel, nicals and petroleum company was not accepted, he would consider launching a tender offer to the company's stockholders.

Mr. Icahn left the door open for a friendly settlement by indicating that if USX were restructured in a way adequately beneficial to stockholders, he would drop his attempt to

acquire the company. Two weeks ago USX took its first big restructuring step by arranging the spin-off of its chemicals division by transferring its assets to a new company called Aristech Corporation, which eventually will be held entirely by the public. Aristech will initially purchase 32 percent of its shares from USX, but these will be retired.

DuPont, Allied-Signal Record Higher Income

Among the major chemical compater net income of \$164 million, an increase of nies, the strongest earnings increases last week were reported by Allied-Signal, Inc., E.I. duPont de Nemours & Co., Celanese Corporation and American Cyanamid Company. Others reporting increases included Pennwalt Corporation, GAF Corporation and Witco Corpo-

DuPont's third-quarter net income of \$343 million was 25 percent higher than a year ago and was achieved despite the adverse effect of lower petroleum prices on Conoco Incorporated. Most of Du Pont's chemical and specialty products businesses posted strong results, reflecting an improved cost structure and strength overseas, states Richard W. Heckert, chairman. After-tax operating income in chemicals and specialty products was up 65 percent from a year ago, Mr. Heck-

Earnings of Celanese in the third period amounted to \$50 million, an increase of 17 percent from a year ago, as chemicals, fibers and specialties all made significant contributions, according to John D. Macomber, chairman and chief executive officer, who also cited ongoing strength in worldwide sales of engineering resins.
Allied-Signal registered record third-quar-

73 percent from \$95 million a year ago. Edward L. Hennessy, Jr., chairman and CEO, said that income for the company's

three operating segments more than doubted from \$70 million to \$153 million, primarily as a result of improved acrospace sales and higher earnings for the automotive aftermarket and fibers businesses.

American Cyanamid's earnings from contimping operations and net earnings in the third quarter were \$44.8 million, up 29 percent from \$34.8 million a year ago. George J. Sella, Jr., chairman and CEO, said that the medical business profited from strong sales growth of pharmaceuticals in the US and in international markets.

Worldwide sales of Cyanamid's agricultural products were about even in the third quarter compared with a year ago despite the company's withdrawal from the diammonium phosphate business on June 30, Mr. Sella notes. He cites a better performance of animal and pesticide products.

Most notable of all was the improvement in Pennwalt's results, as the company recorded carnings of \$13.9 million versus loss of \$37.8 million in the 1985 period.

Excluding the negative effect in 1985 of restructuring charges, operating earnings Continued on Page 26

Petro-Lewis Bailed Out

FPCO Incorporated, New Orleans, La., a company formed at the direction of Freeport-McMoRan, Inc., has signed a definitive agreement to participate in a plan of reorganization for Petro-Lewis, Inc. as part of Precport-McMoRan's etfort to acquire Petro-Lewis.

Petro-Lewis is a limited oil and gas partnership that has been facing ankruptcy because of the decline in oil prices. Freeport-McMoRan has a tender offer outstanding for Petro-Lewis, but the offer has fallen short of the majority sought because certain holders of Petro-Lewis bonds have declined to tender their securities. Participation in the Petro-Lewis reorganization is expected to offer Inducements for these holdouts to tender

ment all units of beneficial interst in American Royalty Trust, a Petro-Lewis affiliate, tendered to date, and that it has extended through last Friday, October 24,

FPCO also has purchased the Petro-Lewis subsidiaries that manage American Royalty Trust and own the properties of the oil and gas interests held by the

FPCO also announced that because the minimum tender condition in its offer for Petro-Lewis debt securities has not been satisfied, PPCO is not purchasing Petro-Lewis debt or equity securities at this

FPCO is urging bond holders to tender and said it hopes that enough bonds are tendered so that it will be economically attractive for FPCO to close on the acquisition, allowing Petro-Lewis "to avoid the costly ordeal of bankruptcy."
Accordingly, FPCO extended until 5:00

p.m. last Friday its eash tender offer for all outstanding debt and equity securities of Petro-Lewis, and also extended withdrawal rights with respect to the offers for the debt securities until that date.

NL Industries Turns Down Bid for Chemical Operation

NL Industries, Inc., New York-based producer of specialty chemicals and coatings materials and provider of petroleum equipment and services, last week rejected a proposed leveraged buyout of its chemicals operation for about

Instead, the company disclosed it was exploring a plan whereby its petroleum services and chemicals units would be spun off separately to holders of different classes of the company's stock.

NL said that the proposed buyout by an unidentified financial institution called for payment of \$13.25 a share in cash and \$2 a share in 11.5 percent preferred stock, an amount that would equal somewhat over \$915 million for the unit's 60 million Series C

the separation of its petroleum services and its chemical operations by early 1987, several months earlier than it would have been accomplished through a previously announced proposal.

preferred stockholders owning NL's business at this time."

petroleum service operations and the holders of NL's Series C preferred stock owning the chemical business.

It is intended, NL says, that after the separation, the shares of both companies would be publicly traded. Completion of the transaction would require, among other things, the processing of filings with Securities & Exchange Commission, approval of a majority of the directors of NL Industries not affiliated with Amalgamated Sugar Company, acting upon the advice of an independent investment banker selected by them, and the approval of NL Industries' common and preferred stockholders.

who controls 5 of NL's 9 board seats, would also receive 5 of NL Chemicals' 9 seats after the spin-off. He is a principal in Amalgamated Sugar.

Mr. Simmons' 5 seats on the board voted The plan NL is exploring would result in against the proposed buyout by a large financial institution in a vote that was 6 to 2, with one director not participating.

In voting against the institution's proposal, Mr. Simmons said that he desired that "there be an opportunity for NL Chemicals to The proposed separation would result in demonstrate its value as an independent present NL Industries common and Series A company rather than selling the chemicals

October 27, 1986

CHEMICAL MARKETING REPORTER

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OILS, FATS & WAXES

Palm Oil Hits Eight-Month High; US Buyers Switching to Soy Oil

ciably, hitting levels that have not been seen since last February. Palm pricing is joining coconut and soybean oil pricing in the strengthening that has been taking place throughout the world oils market for the past several weeks.

"The coconut oil market has been very strong, which nobody really expected," says a trader, who notes that palm is now following coconut oil's lead. That belief mirrors hose of most of the traders in the market

Another surprise is lower-than-expected production of palm oil in Malaysia for the months of September and October. Estimates place production for each of those months at approximately 50,000 tons less than last year's figures for the same months.

Although there are no shortages, the glut situation that has dampened prices for much of the year is not now as severe as people thought it would be. Production levels for the rest of the year are also expected to be below

Demand for palm oil in the US is falling noticeably because of these high prices. ources say. Both spot and forward markets here are described as quiet, with many con-sumers turning their attention to US soybean

US TRADING PALM FOR SOY

Sources believe that many US oil conumers are trading their palm for soy oil. nsumers are said to be selling their forward positions on palm oil, bought at the very low prices of several months ago, and taking their profit in today's strong market. Subsc quently they are satisfying their oil needs with soybean oil, sources say.

The relative apathy of the US market to palm oil has not been found throughout the world market. India bought heavily in the last two weeks, helping to keep the strong market buoyant. Many traders consider it a ealthy sign for the market that India chose to buy in the midst of firm pricing and upard movement. This indicates that palm is of just experiencing a brief rally which wrld consumers are expecting to end soon,

Malaysia is apparently "comfortable go-ing with the market flow" to higher prices, ays a trader. He points out that, while the Malaysians cannot be pleased with a slowdown in US buying, they have developed other markets to the point that they need not cater to the needs of the US market. Some of

FRIDAY SPOT PRICES

MARKET CLOSE OCT. 24, 1986 iude vegetable oils

Cottonseed of, Valley Linseed of, Minnespolls Pain oil, NY Peanut oil, Southeast (restricted) Soybean oil, Decetur	b, ,25 b, ,16
REFD. YEGETABLE OILS Coconut of, Lw., NY Corn, jumbo tanks Cottonaeed oil, jumbo tanks, NY	b26

LMEALS

ATS & GREASES

A white, choice, tanks, divd., NY... ib. . 1634 a, yelow maximum 16%, ffa tanks... ib. . 9 1003e, bulk tanks, divd., Chicago . . ib. . 17 m, inedible, fancy, tanks, divd., NY... ib. . . 1214 m, medible, bioh., tanks, divd., NY... ib. . . 12.

and the USSR, the trader says.

Adding to the Malaysians' comfort with raising its pricing is the easing of the glut situation. Lower production for this month and last month is attributed to several factors, most notably the reduction of efforts by farmers to produce a bumper crop of a very

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

Coconut oil, NY, 2¼ per lb. Cottonsed, 41% bulk, Memphis, \$5 per ton Cottonseed oil, Valley, ½c. per lb. Gresse, white, choice, tanks, divd., N' Palm oil, NY, 11/2c. per ib. ybean, 44% bulk, Decatur, \$5 per ton

CHANGES/DOWN

Corn oil, Midwest, Vic. per lb. Lard, loose, bulk tanks, Chicago divd., Vac. per lb

OILS, FATS INDEX

The Oils, Fats & Waxes index reflects the prices of 11 representative materials in this sector and the quantity of each produced in 1985. Oct. 24, 1986

Oct. 17, 1986 78.46 Sept. 26, 1986 81.59 Oct. 25, 1985 . 83.05

Chemical Prices Start on Page 40

low priced product. Their investment in tertilizer, for instance is widely thought to be less this year than last. Other factors include tree siress, or "tired trees," resulting from heavy yields last year, and lower than usual rainfall in Malaysia during this year.

VEGETABLE OILS

LINSEED OIL - The linseed oil market has been resisting the downward pressure normally associated with the harvest. This is explained mainly as the result of uneven harvesting activity, delayed and interrupted by rain throughout the month of September.

"Typically, we've had a major part of the harvest done by now," says an industry source, "but this year the harvest has been strung out from the end of August until now." The result, he says, is that refiners have been fed a slow, constant supply of oil, preventing the softening effect on the market of a sudden flood of material.

PALM KERNEL OIL — The price of this oil has gone up substantially, to currently quoted levels of 18%c. to 19%c. per pound in bulk quantities, c.i.f. basis, at US ports. US and European dealers are trading the material, but US consumer interest is "almost dead," says a trader. "The market is overpriced," says another, who expects it to come down from these levels.
SOYBEAN OIL — The price of soybean oil

remains strong, despite a relative lack of consumer interest in the US, sources say. The price is maintaining its firm standing largely because of the support felt in the markets for all of the major oils.

Soybeans are enjoying good export de-mand at the Gulf, according to an industry source, who says that domestic bean demand is also high, fueled by a good crush rate. The combination of bean demand and a firm world oils market is expected to keep soy oil. pricing at its current level for the foresec-

TUNG OIL — The price of this oil is quoted Continued on Page 13

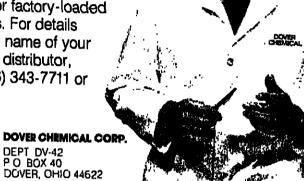
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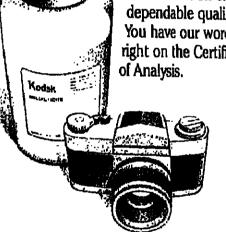
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AND SHOP STANFORD CONTRACTORS IN THE STANFORD

OILS, FATS & WAXES

Continued from Page 11

between 31c. and 33c. per pound in tanks, imported into New York. The market has been fairly quiet, sources say, with ample supplies belping to keep the price down. "We were told that once the price came

down and stayed down for a while, tung would recover its market. We're still waiting for people to come back to it, but the signs aren't there right now," a source says. Buying is said to be largely hand to mouth, with consumers taking "only what they absolutely need," according to an industry source.

FATS & GREASES

TALLOW - This market has been strengthening lately, marked by a resurence of domestic consumer demand. A number of US exporters have been in the market to cover sales made one to two months ago,

Apparently, the current ease in production caught some exporters off guard, who had made earlier sales based on higher produc-tion expectations. Consequently, they have had to buy fairly heavily to meet those commitments, according to an industry source. Strong domestic buying at the levels brought up by the exporters is the source of the current market strength, sources say.

CARNAUBA — The price of number one ellow Parnahyba is quoted between \$1.95 and \$2.05 per pound, and yellow number one Ceara is quoted between \$1.75 and \$1.90 per

pound, both in bags, in ton lots.

Refined North Country number two wax is quoted between \$1.55 and \$1.65, and North Country number three, centrifuged, is quoted at \$1.10 per pound, both in bags, in ton lots.

The market has been very stable, sources say, with buying taking place at normal or slightly below normal volume. Readily avail-able supplies of carnauba are expected to keep the pricing from rising above current levels for at least the next several weeks.

MISCELLANEOUS

METHYL ESTERS — Henkel Corporallon has announced that it is raising the price of its 12-18 grade methyl esters. The price

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will be increased from 25c, to 33c, per pound in tanktruck quantities, effective November 1

Thermoplastic Line Introduced by BASF

BASF Corporation has formed a thermo-plastic polyurethane elastomer business spe-cializing in the market development and sales of the company's TPU "Elastollan" for the injection molding, blow molding, and ex-trusion industries in the US.

According to Manfred Buller, the company's group vice-president for polymers, the formation of this new business unit "reflects BASF's continuing commitment to US markets." BASF has sold "Elastollan" in European and other markets for more than 20 years, he adds.

"BASF is offering its Elastollan products in the US as a consequence of steadily growing demand for TPU in blow molding, injection molding, and extrusion markets world-wide," Mr. Buller says.

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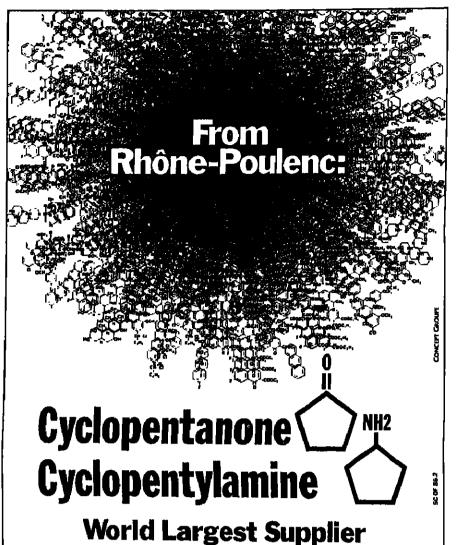


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AROMATIC ORGANICS

Phthalic Advance Holds Firm On Reports of 'Snug' Market

Phthalic anhydride producers say that higher orthoxylene costs have been supthe October 1 industry-wide price in- ported by overseas production disruptions crease has been successful. Higher feed-stock costs, supply disruptions, and strong export demand are said to have it is reported that a production problem in provided support for the move.

"The price is holding firm" at the 1 cent per pound higher level, says one producer, and another comments that "this is the most successful increase in some time.''

"Phthalic anhydride has passed the tight state," asserts the latter source, as only two of the six production facilities in the country have not experienced some production curtallment over the past several weeks.

"The market is very snug," agrees another producer. "We've been totally sold out, and I believe (one or two other producers) are in the same boat." Among the producers, it is reported that Exxon Chemical Americas and Sterling Chemicals have curtailed production this month due to catalyst changes, and that Koppers company experienced five days of downtime last month due to a mechanical

Most seriously, Stepan Company has only recently resumed normal production at its 170-million-pound-per-year Millsdale, Ill. site. Production was hampered for over two months by a blower problem that necessitated equipment replacement. "We were barely running" until the problem was solved, says a company spokesman.

SUPPLIES ALLOCATED

It is said that Exxon is limiting the amount of material its customers can buy because of the low supply availability. One producer says that Exxon was prompted by the market's tightness to obtain a 1-cent-per-pound increase October 1 (on top of the industrywide move) in the company's contract price spread over feedstock orthoxylene costs.

It is believed that Exxon, for the most part, cally, and a sharp increase recently in expo is the only phthalic anhydride producer with contract pricing tied to a definite spread over 5.164 million pounds of material were exorthoxylene. Exxon's move this month is said to be related to last quarter's industry-wide orice move in which, at a time when orthoxy-seven months of the year through July, the ene prices were stable, Exxon did not partic-

This month's industry-wide 1-cent-perpound increase has not met with the controversy of the third quarter move in part because feedstock costs have risen in recent months. Producers say that, essentially, they the US dollar have enabled suppliers here! have passed through higher orthoxylene

Orthoxylene pricing, over the course of the third quarter, firmed from a 12%-cent to as 3 cents per pound for material moving as 3 cents per pound for material 13-cent-per-pound level to a range between 131/2 cents and 131/4 cents per pound.

AROMATIC ORGANIC IMPORTS: AUGUST

275,572 599,567 1,482,567 766,521 928,125 63,074 24,307,926 20,477,432 1,062,943 8,630,836 1,812,962 2,256,036 2,000

CENSUS BUREAU REPORTS ON THE TOP 24 AROMATICS.

plant went down," says a source. In addition Mexico has compelled that country to import

Nonetheless, producers stress that they do not view movement in phthalic pricing a necessarily reflecting the feedstock picture Supply-demand considerations are

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

AROMATICS INDEX The Aromatic Organics index reflects

the prices of 14 representative materials in this sector and the quantity of each produced in 1985.

Oct. 24, 1986 167.84 Oct. 17, 1986 . 167.84 Sept. 26, 1986 Oct. 25, 1985

Chemical Prices Start on Page 40

paramount in pricing matters, says one pro ducer, and others say they like to believe that orthoxylene-tied contract formulas are a their way out. "Phthalic ought to have some intrinsic value in the marketplace," one producer says.

Producers report steady business domest activity. According to Bureau of Census ported during the month of August, a sharply from previous months. For the first entire amount exported was only 3.680 ml

Producers report heavy exports from the West Coast to Far East destinations such ! Taiwan and Mainland China. Producers St that low freight rates and the weskening meet demand from a Far East that is "holler g for phthalic.

from Chicago to Taiwan have been available for several months because of the "trent" Phthalic anhydride producers say that

has not changed its list price from the level of 25c, per pound less a 3c. per pound TVA. Sterling Chemicals reconfirmed to its cuslomers a list price of 26c. per pound. These prices all became effective October 1.

AROMATICS

ern US as a consequence of heavy US imports

The weakening of the US dollar in relation to Far Eastern currencies has been a more recent phenomenon that has provided the impetus for the US export surge, producers say.

They expect export levels to continue to run very high for the balance of the year, and believe the total for the year could well double last year's 13.0 million pounds.

BTX - Spot benzene pricing held fairly steady last week between 83c. and 84c. per gallon. Sources expressed uncertainty over the likely path pricing will take in the coming

There appear to be several factors supporting firm pricing, including Organization of Petroleum Exporting Countries' (OPEC) agreement to extend production controls, healthy demand for styrene, and high benzene running rates that have resulted in the postponement of turnarounds

However, as one source says, the direction of the market often runs counter to conven-

There was only one bearish factor the last day or two, high crude oil inventories, said a trader early last week, but this appeared able to offset a number of bullish factors.

Another trader points out that many ben zene buyers loaded up prior to the industrywide move to 85c. per gallon in mid-September, and then held off buying for quite a while.

"People felt that, with the uncertainty of OPEC, time was on the side of the buyer," he says. This prognosis has not held up, and pricing has held steady.

Spot toluene is quoted at 67c. per gallon, a price equal to the previous week's level. A source observes that octane demand in the US has been fairly healthy, but that there has been a lull in European demand. Spot xylene is quoted between 76c. and 77c. per gallon.

PHENOL — The 2c.-per-pound October 1 price initiative did not succeed, and temporary allowances were instituted.

However, "operating rates are very high, and raw material pricing has been firm," says a producer, in justifying the need for a

STYRENE — The extent of the industry's price increase for November 1 is unsettled at this time, Chevron Corporation and Cosden Chemical announced price increases the previous week to 27c. per pound. It is believed that one other producer also raised its price around the same time.

Last week, Borg-Warner Corporation reconfirmed that its price is 27c. per pound loss a 3c. per pound temporary voluntary al-

The company says that it aims to "establish a minimum selling price of 24c. per Dow Chemical USA confirmed to its cus-

tomers that the company's list price is 26c. Huntsman Chemical Corporation says it Reilly Free-Flowing Niacinamide. Use it like water. Reilly smooths your way to profits with a top quality macinamide that blends easy as liquid. Won't pack. Won't clump. Won't ever slow up a process. Rolly free-flowing macinamide. Pour it on. For samples, write or call Reilly Tar and Chemical Corporation, 1510 Market Square Center, 151 North Delaware Street, Indianapolis Indiana 46204. (317) 248-6411. Reilly. miacinamide The pyridine source.

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CHEMICAL MARKETING REPORTER

108,188 248,468 556,701 560,600 6,214 188,562 62,807 3,73,309 14,324,924 1,990,080 4,394,113 1,641,085 3,089,947 4,863

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Toxic Chemicals Problem Continued from Page 5

ers at the cities of Akron and Cleveland are late the discharge of all toxic pollutants (in largely responsible for the discharge of toxic cluding concentration and load limitation

tants to the river system, including the National Pollutant Discharge Elimination System (NPDES), are generally ineffective in the system and are poorly enforced.

• NPDES permits of many point source dischargers have been expired for several years; discharge limits for toxic materials in effective permits are practically nonexisent; and, where toxic discharge limits do exist, they are frequently violated.

Based on their study, NWF and OWF recommend that the Ohio EPA aggressively imlement and enforce the Clean Water Act in • Immediate reissuance of all expired

NPDES permits to industrial and municipal dischargers.

• Issuance of NPDES permits that regu-

largely responsible for the discharge of toxic materials that degrade water quality and limit blota in the Cuyahoga River system.

• The regulatory programs that are intended to control the discharge of toxic pollutions and responsible for the discharge of toxic pollutions.

• The regulatory programs that are intended to control the discharge of toxic pollutions.

• Requiring industries and publish the limit blota in the Cuyahoga River system.

• Requiring industries and publish the limit blota in the Cuyahoga River system.

• Requiring industries and publicly owner treatment works with the potential for dicharging toxic materials to perform whole effluent toxicity testing following methods developed by EPA.

• Implementation of an enforcement program to ensure that expired permits are revised, that the discharge limits in new permits are strictly followed, and that all toxicity in discharges is regulated.

nation of the discharge of toxic materials from point sources in the Cuyahoga River elimination of the discharge of toxic materials from nonpoint sources, will result in linproved water quality in the Cuvahoga River

At our Pampa, Texas plant, product quality is more than the concern of a single department. It's a deep scated commitment to "do it right the first time." That same commitment is echoed throughout the Celanese

Our loading and lab people recently initiated the idea of a quality feedback survey. A postage paid reply card with the picture of the analyst or loader is attached to each shipment and to each certificate of analysis. This is done to demonstrate the personal responsibility for quality.

Thus far, the results have been gratifying, with a

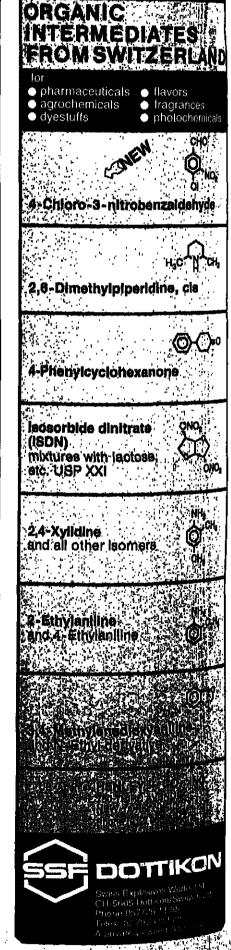
very high response rate. All seem to be pleased that Celanese has provided this opportunity for customer feedback.

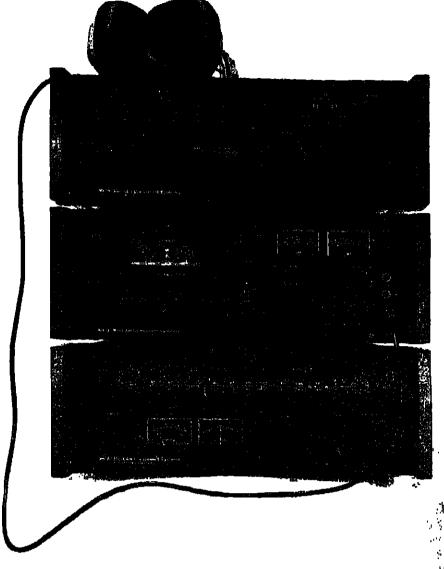
The feedback process creates two-way communications, which in turn leads to greater customer satisfaction. That's Celanese quality, inside and out, When quality matters, consider Celanese first. With us, it's a matter of personal pride.

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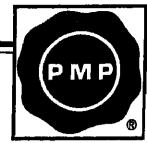
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ALIPHATIC ORGANICS

Acrylonitrile: Fiber Continued from Page 5

Bureau the statistical arm of the Man-Made Fiber Producers Association.

But while the US acrylic fiber industry is pooming at home, the overseas market is plagued by oversupply and price erosions. These conditions have played an important factor in poor export prices for US acrylonitrile. Acrylonitrile export prices have also been seriously damaged by oversupply in the acrylo market, and by tumbling raw mate-

rial propylene prices.

Ironically, the strong US market for acrylic fibers has contributed to the weak pricing situation in the overseas market. The 18 percent gain in domestic shipments so far this year, coupled with domestic cutbacks in acrylic fiber capacity, have kept US fiber producers virtually out of the export market. US fiber producers shipped 148 million pounds of acrylic overseas in the first nine months of 1985. By comparison, US fiber exports so far this year have totalled only 65 million pounds. One source says "there has been intense price competition" by foreign acrylic makers to fill the void left by the US producers. This in turn has helped drive down the international price of acrylonitrile.

US acrylonitrile export volumes have remained high this year, but prices have steadily fallen. A large portion of the decline has been attributed to falling raw material propylene costs, but exporters also blame terrible fiber prices and excess supplies of acrylo, especially in Europe. At the beginning of 1986, US acrylo producers were exporting material for over \$700 per metric ton, but that price has now fallen to \$500 per ton C&F to the Far East following a \$20 price slide from the third to fourth quarters, according to one producer

SPOT PRICES DRIFT LOWER

In the European market, spot prices have drifted even lower. A large influx of Eastern Bloc material, one producer explains, has helped pushed the European spot price down to \$480 per metric ton, C&F. At this price, the US producer says American acylonitrile manufacturers are staying out of the European market. European oversupply is also attributed to the recent start-up of an acrylo plant in Turkey, and the return of Enichem's

Another source of weak acrylo export prices has been domestic tollers of acrylonitrile. One producer explains that earlier this year Monsanto, and later Sterling Chemical, were converting propylene and ammonia at Texas City for traders and other customers for a fee. The people tolling the acrylonitrile then sold the material in the export market, often at extremely low prices. Though the practice is profitable to the Texas City owners, it also contributed to the general decline in acrylo export values. A Monsanto offical estimates that up to 40 million pounds of acrylonitrile per quarter have been tolled at Texas City. He also estimates that these traders were selling product for up to \$60 per metric ton below traditional acrylo makers'

The weak acrylo prices have been very discouraging to US producers. They have been operating at high rates all year, and prices continue to slide. One company, American Cyanamid, says that because pricing on the export market is so weak, the company is pushing forward some planned maintenance work from early next year to next month, and will take a portion of its capacity out of production. Market tightness was also aided by an extended turnaround taken by Standard Oil Chemical Co. in August and September.

Now, acrylonitrile producers are faced with rising propylene prices both here and in Europe. Propylene sellers have pushed for October prices increases of up to 2 cents per acrylomakers say the downward pressure on prices applied by acrylic fiber producers makes it impossible for them to accept higher raw material. higher raw material costs.

n-BUTANOL - Operating rates pushing 95
percent of capacity has allowed US n-butanol

VINYL CHLURIDE MOVE TO PROPERTY TO PROPER

producers to launch two largely successful price increases in the second half of 1986 And since the price inceases have come at a time when raw material propylene prices have been weak, producers have experienced a smart upturn in profitability as well.

In July, n-butanol producers posted a ac per pound price increase, and have followed

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

ALIPHATICS INDEX

The Aliphatic Organics index reflects the prices of 20 representative materials in this sector and the quantity of each

produced in 1000.	
Oct. 24, 1986	222.
Oct. 17, 1986	222.
Sept. 26, 1986	222
Oct. 25, 1985	222
200 EQ 1000 111111111111111111111111	

Chemical Prices Start on Page 40

that with a 2c. per pound hike in October. One producer says "most of the July increase stuck," and the present initiative is holding

The reason for the relative success of the price advances, he says, it that "not a lot of butanol is available now, and producers ca resist" customer efforts to knock the price down. This producer estimates that 1986 domestic production will reach 1 billion pounds while current operational capacity stands at

This tight balance has been created by a steady 3 percent annual increase in consum tion over the last three years, coupled with large reduction in North American produc capacity. Since late 1984, Union Carbide shut a 270-million-pound unit in Puerto Rico and Celanese closed 175 million pounds of n-butanol capacity at Bishop, Tex. In addition, BASF closed an oxo-alcohols unit is Montreal, Canada, and Shell is believed to have idled some capacity at Deer Park, Tex Bucking this trend, Carbide has been grade ally expanding its Texas City, Tex. plant. The company began a 200-million pound expan sion there two years ago, and is still 50-million pounds shy of its goal.

demand increases, n-butanol plant operation rates have jumped from 70 percent of capac ity or worse in 1984, to the current 95 percelevel. Not coincidentally, price incress that were launched in 1984 and 1985 failed while two increases in the past three mon have been largely successful. Yet, while butanol producers have found recent success in their price announcements, n-butan prices still remain below levels quoted in the

CARBON BLACK OIL - Market SOL report that Exxon has posted a new price \$12.50 per barrel for carbon black oil a increase of \$1.50. The increase is effective November 13, but one source says little product is available from Exxon before thes

Observers say Exxon is the major carbon black oil producer and that most often suppliers follow its lead in pricing.

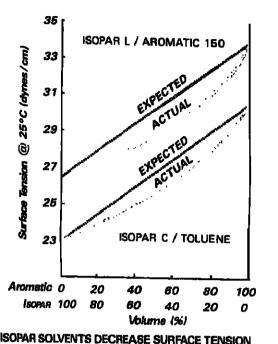
The oil was increased by a similar amou in September, when it had been priced at attempt passing one through to customers

VINYL CHLORIDE MONOMER - The

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CHEMICAL MARKETING REPORTER

October 27, 1986

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ALIPHATICS

but the market remains so tight that one producer says several spot purchases have been made at 1/2 c. above this level. The export market price is also above domestic levels, the source says.

VCM continues to be in tight supply. Exports of monomer surpassed the billion pound mark in August, and the domestic vinyl market is booming. One monomer pro-ducer said sales of PVC last month reached an all-time high for September. The producer says there is enough monomer for domestic consumers, but importers of US VCM are scrambling to get enough product.

A producer says the supply tightness is illustrated by the current reduction in monomer "exchanges." He says producers normally borrow large quantities of VCM from other manufacturers, but that practice is now restricted.

The tight supply-demand balance would normally warrant higher selling prices, one source says, but weaker prices for PVC dur-

ing the third quarter has effectively held down VCM values. However, PVC price in creases have been posted for October November, so VCM makers may get an opportunity to further firm their own selling

VCM is expected to remain in tight supply for the balance of the year, sources say, even though November and December are tradi tionally slow demand months. Domestic demand may taper off as the housing industry slows down, but export sales should stay strong. At the same time, several plant turnarounds planned for now and later in the year should help keep supply snug. Currently, Shell Chemical has taken a three-week turnaround at its 840-million pound Deer Park, Tex. monomer facility. The plant is the back on line in early November.

Specialties No Cure

productive capacity, Mr. Doscher says. How. ever, restructuring should not be based only on a policy of closing plants but on a "scra

Companies need to work together morein the research and innovation areas. At the moment they were all busily paddling their own canoes into the future, Mr. Doschersan

"European companies need to be acutely aware of who is doing what in terms of land-vation, so that we don't duplicate each others work and then find the research process leading us into building plants which the global market does not need," he says.

Douglas Rodger, a chemicals specialist at management consultants McKinsey & Co. also warned the CMRA members of the dangers of switching into specialties in an effoll to improve profitability

Diversification through acquisition forer ample, has many pitfalls. The purchaser can pay so high a price that it can never record the premium. "Many of the price-earning multiples for US speciality companies are ludicrously high in relation to the prospects

The acquiring company also runs the rist of making a new subsidiary adapt to the parent's way of doing things, however inappro-

"The main reason why you are likely le make a mess of a newly-acquired specialitie business is the enormous organizational, cultural and business differences between large, commodity-oriented chemicals com-pany and a much smaller speciality com-

COMMODITIES MATURE MARKETS

The commodity company has a formal rigid structure geared to operating in mature markets. It is inclined not to take risks, making careful decisions backed by all depart-

"By contrast, a speciality operation of quires an informal and flexible structure," he says. "Its success depends on its capability act in an entrepreneurial manner and to lake calculated risks. The whole culture of the organization has to favour individual action and fast response."

"In bulk chemicals and plastics, a supplied is pretty well forced to follow a low-cost strategy and the main decision is whether to do this on a broad front or to concentrate of particular market segments," Mr. Rodge

novation appears to be providing

the ingredients of success," he says. Chemical companies in Europe have the much over the last few years to reduce ? by closing plants and cutting productions. But investors tend to give greater portance to short-term factors like the productions are the productions.

of oil and exchange rates.
"In general, the potential impact falling dollar in weakening the compa-position of Europe in overseas market weights improvements in the cost po-because Europe buys its feedstocks lars," he explains.

Continued from Page 7

and build," program instead.

Mr. Browning estimates that propylene supplies from refineries for chemical use will increase by 250,000 tons to 1.25 million tons by 1990. Some of the supply gap could also be filled by a rise in low severity ethylene cracking. Despite temporary increases average net imports are expected to remain at their 1985 level of around 250,000

for their businesses," Mr. Rodger says.

priate that may be.

"A classic example of this was the Gul Chemicals acquisition of Harshaw Chemi cals and Millmaster Onyx, companies which were eventually sold again," Mr. Rodgerer

Tony Church, an investment analyst Merrill Lynch Europe, said that in the long term, innovation is the key to the fulle growth of the European chemical industri ut not just in technical areas:

"Technical innovation without material

Europe May Draw Continued from Page 5

Europe," Mr. Boido says. own sake, but as a byproduct or coproduct of another manufacturing process."

At the same time propylene output from steam crackers (at high severity) will de-

because of a rise in use of propane and ethane

around three-quarters of cracker feedstock.

Much of the shortfall, however, could be

met by a rise in propylene from fluidized

catalytic crackers (FCCs) used to provide

ish octane gasoline as Europe moves over to

REFINERY PROPYLENE RISING

Luigi Boido, managing director of Norsk Hydro Belgium SA, called for action by West-

em European governments to curb the flood

of altrogen fertilizers in the region from Eastern Europe and Middle East, Latin

America and other parts of the developing

Western European fertilizer companies

had done much over the last few years to

bring down production costs by reducing the

energy intake of their plants to make them

more competitive. However, it's maintained

importers have still been able to undercut

prices because their plants have been built

more for strategic purposes than the need to

"Imports from outside Western Euorpe, at

prices that can easily be classified as dump-

ing levels, are creating the basis for a regime

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make a profit.

leedstocks. At present naphtha accounts for

as against 7.16 at present.

low or unleaded petrol.

"In this situation the problem becomes po-litical. Nobody can in conscience accept that He expects that propylene demand in Western European agriculture is supplied by Western Europe will maintain an annual avimports, because this would put the key of erage growth rate of 2.9 percent (against 1.6 percent for ethylene) until 1990 when total our own survival in somebody else's hands." consumption should reach 7.51 million tons

Since 1960 the share of the non-communist industrialized countries of world nitrogen Much of the impetus behind the increase in fertilizer production has fallen from 73 percent to 36 percent. In the same period that of demand comes from a steady rise in consumption of polypropylene which is expected the Comecon countries rose from 16 percent to push up its share of the sector from 37 to 30 percent and the share of the developing percent of chemical use to 40 percent by countries from 10 percent to 36 percent.

Global overcapacity has kept prices at a low level since the mid-'70s. This year they plummeted even further as a result of the fall crease from 5.75 million to 5.55 million tons in the oil price and attempts by oil-exporting countries to increase sales of fertilizers to maintain revenues.

Since 1980 Western Europe has reduced its ammonia capacity by around 1 million tons to just under 14 million tons. In an effort to cut energy costs, European companies have also built larger plants. Over 75 percent of West European ammonia capacity is now provided by plants in excess of 200,000 tons. Western Europe continues to be a forerunner in lowering energy consumption as it

was among the first to feel the shock of the increase in energy costs," Mr. Boido says. But it's felt further plant closures are needed. He reckons that 15 to 18 percent of Western European plants are over 20 years old and as a result uneconomic in terms of

energy consumption. Explaining the reasoning behind Norsk Hydro's moves to gain a dominant position in the Western European fertilizer market through acquisitions, Mr. Boido says that the Norwegian-based company is assuming that governments will accept that a certain

"They will understand that the door cannot be opened completely to supplies from outside." he says. "There has to be a balance between local production and imports.

amount of fertilizers have to be produced

"Our philosophy is based on the belief that someone in Western Europe has to produce fertilizers by the best technological means

The company has been buying up plants that are so starved for investment they are in danger of going out of business. At the same time it is building the most technologically unsustainable low prices all over Western advanced plants to face up to the competition

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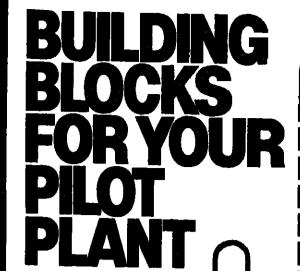
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Dr. Jurgen Frohling of the agrarian econmy and ecology department of Bayer AG's agricultural division, expects that more companies will pull out of the crop protection market because of the soaring costs of R&D. Europe and North America which has drive

active ingredient per hectare, the level lodge

Last year, he estimates, the world cop protection market was worth \$15,800 ml

lion, of which insecticides accounted for a

percent, fungicides 18 percent and herbicides 44 percent. The US represented 32 percent

the world market. Western Europe 22 per

James Hickey, a consultant at Stratege Analysis, Inc. Europe in Brussels, predicted

that sales of speciality adhesives in Western

Europe will grow at an annual 5.6 percent

until 1990 while the total adhesives market

8 percent, anaerobics and cyanocrylates

percent each and epoxies by only l per

Sales of reactive hot metal adhesives are

rising rapidly mainly because they are subable for robotization in the automobile indu-

try — the major market for high-perlom

ance adhesives. They now have a 2 to 1

percent share of the speciality market, which is likely to increase even further if they can

A big impetus behind the growth of polyurethanes is their use in the direct glar-

ing of car windshields. This year four million

cars are being direct glazed in Western Er

rope. In 1987 the figure is expected to read

Polyurethanes are replacing epoxy addi-sives in some sectors and in the long ten

The growth of anaerobics depends a lot of

the health of the European automobile inde-

try. With Loctite of the US, one of the big

players in the Western European market, at

tomotive accounts for 50 percent of E

Like many other speciality adhesive

anaerobics are only slowly being accepted:

"A lot of these high-performance add-

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sives do not have a history so their products

need to work with industry to get themevals

penetrate the aircraft industry.

could push them out altogether.

ropean anacrobics turnover

ited," Mr. Hickey explains

aircraft companies.

because:

is between 10 to 100 times lower."

cent and the Far East 19 percent.

down global crop prices.

"The development of a modern crop protection product which meets all specifications for effect and compatibility with the environment currently costs more than 100 million Deutsche marks (\$53 million) over a period of ten years," he told the ECMRA

"Worldwide only a few companies can afford such an expenditure, accompanied by a correspondingly high degree of risk. In recent years many companies active in the crop protection sector have been no longer able to continue their efforts. This process of eorganization and concentration will certainly be extended into the future."

At the same time extra pressure is being put on companies by slow growth rates in some sectors. Dr. Frohling feels for example, that the world pesticides market will not expand over the next four to five years mainly because of agricultural overproduction in

Farmers are also much more efficient in their use of agrochemicals which has low. DRUGS & FINE CHEMICALS ered consumption levels. "Whereas 10 to 15 years ago, it was sland ard practice with crop protection products be applied at between 1,000 to 3,000 grams

Citric Acid Imports Exert Pressure on Domestic Pricing

Citric acid imports are putting pres- Japan fell to 1.4 million pounds from 4.04 this year, imports are running 17 percent ahead of last year's record-setting pace, according to the most recent gov-

will expand by only 2 percent a year.

Reactive hot metal adhesives will grown
9 percent annually, polyurethane adhesive About 33.4 million pounds came to the US through August, an amount almost equal to 1984's total for the full year. Through August of last year, slightly less than 29 million pounds had entered the US. Last year's total of 43.1 million pounds was an all-time high, but 1986 imports should exceed 50 million

> The leading exporter to the US, Belgium. has not increased its shipments here, sending about 10.5 million pounds through August of 1986. However, Belgium is the source of Hofmann-La Roche's material, and that company is considered by many to be the equivalent of a domestic producer, because of its activity and the services it provides.

The next three greatest sources of citric acid imports, though, have significantly in-creased shipments here. West Germany has sent 7.5 million pounds through August, almost 70 percent more than last year's 4.4 million pounds. The third leading exporter to the US, Israel, has increased its total by more than 30 percent (5 million pounds, up from 3.8 million pounds), and mainland China has more than doubled its US sales, sending 3.1 million pounds to the US, 120 percent more than the 1.4 million pounds it sent through

WEST GERMAN CITRIC

Benkiser Inc., the West German source of citric acid, expresses surprise in regard to the great increase from West Germany, and aspokesman insists that some material must becoming to the US from other countries, via West Germany. In any case, the growth indilarger share of the US market.

lestic producers are split concerning China's effect on the market. One producer thinks that China's low pricing (said by several sources to be the lowest-priced citric acid) exerts a definite downward pressure on domestic pricing. Another producer, though, claims that even with China's increasingly active role, it still accounts for only a small percentage of the overall US citric acid mar-

imports are expected to continue increasing, at least in the short term. Producers point out that, despite the dollar's weakening, apporters don't want to relinquish their market share. Also, notes one producer, many "local" plants are opening in countries such at Thailand and Turkey. With those markets closed foreign a country. closed, foreign sources are turning more and

Despite the import activity. Pfizer has inteased its domestic capacity and its capacity in Ireland. Pfizer notes that most of the Acresse was in Ireland, and says the domesic increase was done with an eye toward the latere A spokesman says that in the longterm, imports will eventually stabilize. In the meanline, imports are expected to continue

One spokesman claims that imports generally on between 3 and 8 cents per pound less has his company's product. A source of Chiles clinic acid as product. best cliric acid says his company's list and light price is 73 % cents per pound.

By producers have not been as fortunate in their exporting endeavors as their foreign

the exporting endeavors as their foreign to superparts. Exports through August fell to the endeavors as their foreign to superparts. Exports through August fell to the endeavors are the endeavors as their foreign to superpart the endeavors as their foreign the endeavors as the

sure on domestic selling prices, US producers of the material complain. So far creased to 1.65 million pounds. Japan and Australia are the US's largest export mar-

One producer says the export market is weak because European price competition is "intense." He adds that Europe has long had the advantage in the world market, because it became involved in citric acid much earlier than the US. As far as Japan is concerned,

PRICES TRENDLINES

Ascorbic Acid, \$1 per kilo Caffeine, \$1 per ib. Niacin USP 50c. per kilogram Niacinamide USP, 50c. per kilogram Pyridoxine HCL, \$3 per kilo

The Drugs & Fine Chemicals index re-

or each produced in 1985.
Oct. 24, 1986 211,16
Oct. 17, 1986 211.16
Sept. 26, 1986 211.16
Oct. 25, 1985 211.16
Chemical Prices Start on Decade

A rumor that Cargill was planning to enter the citric acid business remains a rumor. The company opened a high fructose corn syrup plant this year in Eddyville, Iowa, and citric acid sources say Cargill may start producing citric acid at that facility. Cargill declines

Sodium citrate, the salt of citric acid, has also seen an increase in imports—4.3 million pounds through August, compared to 2.1 million pounds through August, 1985. Pricing is

raising the price of its synthetic caffeine, effective November 1

Knoll, which imports its caffeine from demand and the Brazilian drought.

Domestic list pricing remains the same as the beginning of 1986. Pfizer's list price is searchers alleged a connection between FBD searchers alleged a consumption of methylxanthines (which breast disease)."

The researchers also wrote that their re-Methylxanthines are a group of chemicals

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

DRUGS INDEX

flects the prices of 10 representative materials in this sector and the quantity

Oct. 24, 1986	211.16
Chemical Prices Start or	

he claims that China has been supplying much of its material, as part of an effort to increase business dealings between the two

CAFFEINE - Knoll Fine Chemicals is

Twenty-thousand-pound shipments will cost \$5.80 per pound, up from \$4.80 per pound. The following prices will also become effective November 1: \$5.85 per pound for 10,000 pound shipments; \$5.90 per pound on 1,000 pounds basis; and \$5.95 per pound for less than 1,000 pounds

West Germany, attributes the increases to the soft US dollar. Other suppliers of caffeine note that tight supplies have had a firming effect on the market (CMR, 10/6/86, pg. 23). Major reasons for the tightness are increased

Also concerning caffeine, the National Cancer Institute recently concluded that there is no association between coffee drinking and the painful breast condition known as

cents per pound, 83 cents West of the RockMiles I should be searchers alleged a confidence (which and consumption of methylxanthines (which US. Spokesmen will not divulge ity of that theory arose, leading to the NCI the Prices, but acknowledge the pressure study. NCI examined about 3,300 women, and study. NCI examined about 3,300 women, and found "no evidence of an association between methylxanthine consumption and benign breast disease (another name for fibrocystic

sults are consistent with "those of several epidemiologic studies undertaken to address this issue, as well as with results from laboratory studies which have measured physio-logic responses to caffeine consumption."

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DRUGS & FINE CHEMS

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ENZYMES - Novo Laboratories, Inc., will be raising its contract prices for enzymes used in starch processing, effective

The new contract bulk truckload prices will be "AMG 200L" (glucoamylase), \$3.50 per liter; "Dextrozyme 225/75." (glucoamylase - pullulanase mixture), \$5.65 per liter; and "Termamyl 120L" (alpha amylase), \$1.75 per pound

Also, contract prices for fuel ethanol grades of these enzymes will be raised for bulk truckload quantities: "Spirizyme 200L" (glucoamylase), \$3 per liter; "Liquozyme 120L" (alpha amylase), \$1.65 per pound; and "Liquozyme 60L" (alpha amylase), 85c. per

Spot prices for the above enzymes will be 6 to 8 percent higher than the contract prices.

Prices for truckload quantities of drums are 5c. per pound and 10c. per liter higher. Terms are net 30 days, f.o.b. Franklinton,

N.C., freight equalized According to a spokesman, these increases are needed to obtain "acceptable" profit margins, following a three-year depression.

PHARMACEUTICALS — India's produc-

tion of pharmaceuticals has jumped 20 percent during the last year, says Satish Shah, president of Aakash Corporation. Other observers agree that India is making its presence felt in both the US and the rest of the

Mr. Shah also includes fine chemicals, dyes and intermediates in his growth estimation. "Bombay is on the ocean and has new piers made for higher efficiency in loading and unloading ships," he says. He continues that with the US dollar's weakness, companies are looking toward the third world for less costly material.

One reason for lower costs is said to be India's relatively cheap labor. For example, Mr. Shah estimates that a chemist who makes \$30,000 a year in the US would earn \$8.000 a year in India. Likewise, factory workers who earn \$20,000 a year in the US could expect to earn \$2,800 a year if they

worked in India. Mr. Shah addsthat Prime Minister Rajiv Gandhi's policy of "opening up" trade relations has helped India carve out a larger share of the worldwide chemical market. Among these "openings" is a widespread reduction of import tariffs.

Acetaminophen, iodine and penicillin are exmaples of chemicals in which India has become more active recently. In particular, India is sending more penicillin to the US. Psyllium seed husk, a product which comes to the US. to the US exclusively from India, is coming here in dwindling amounts in 1986.

J&J Arthritis Drug Discontinued in UK

Johnson & Johnson says it is discontinuly sales of the arthritis drug "Suprol" in the United Kingdom, but its McNeil Pharmacen tical division will still market the widely used prescription painkiller in the US.

"This decision has been made on commer cial grounds," the company's Ortho-Clar subsidiary said in letters to physicians and drug regulatory authorities in the UK. The company attributed its decision to poor sales volume in the UK market.

Johnson & Johnson, which does not disclose figures on sales and users, said it coninues to believe that "Suprol" is a safe and effective drug in the hands of physicians with proper prescribing information.

Public Citizen Health Research Group charged in September that "Suproi" had caused kidney damage in hundreds of users.

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Drug Export Action

law provides no source of compensation. Faced with costly damage awards, manufacturers have raised prices of some vaccines by 500 percent in the past two years. Since 1984, the number of companies licensed to make vaccines has dropped from 15 to three, creating serious shortages of

some products.

According to the bill, any child suffering a mown adverse reaction within a certain time after receiving required vaccines against poilo, measles, mumps, rubella, diphtheria. tetanus or whooping cough would be automatically eligible for compensation by petiloning the Federal courts.

But in a letter to Sen. Orrin Hatch, (R-Utah), the Senate sponsor of the omnibus health package, the Justice Department said it would recommend a veto because the vaccipe provision would create "a major new tillement program for which no legitimate stional need has been demonstrated."

Department of Health and Human Services also strongly opposes the vaccine measure, but HHS supports the pharmaceutical export amendments as well as most other components of the package.

The drug export provision, proposed in 1985 by Sens. Hatch and Edward Kennedy (D-Mass.) would allow US companies to export drugs to countries that have well-develped procedures for the approval of pharma-

are approved in foreign countries earlier than in the US are prevented by law from supplying those foreign markets from their

They are forced to either build plants abroad or license out their products, and valuable American technology, to foreign manufacturers. As a result, the industry argues the US economy is deprived of investments, jobs and exports.

Lifting the ban on drug exports, according to a PMA analysis, could create 8,000 to 10,000 additional jobs and \$400 million to \$500 million additional exports in five years.

Sen. Hatch said the "landmark legislation" would help "in improving the competitive position" of US pharmaceutical companies in

Mr. Mossinghoff credited Sen. Hatch, the chairman of the Senate Labor and Human Resources Committee, with gaining congressional approval of the drug industry's top

"Without chairman Hatch's persistence and political acumen, this bill never would have been brought up on the Senate floor," says the PMA president. "He pushed it over

A PMA spokeswoman says the organization does not have a position on the vaccine measure because its member companies are split on the issue, but the industry strongly US pharmaceutical houses whose products supports the overall drug package.

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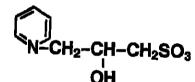


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CHEMICAL MARKETING REPORTER

October 27, 1986

Waste Rule for Military Continued from Page 4

gauge the extent of the problem because this site would be exempt from federal or state standards under the proposed rule," Rep.

Synar says.
"We also found that one contractor at the Hanford reservation in Washington State used the proposed rule to classify every single liquid waste stream at the Hanford Reservation as byproduct, which the proposed rule would exempt from federal and

state hazardous waste regulations," he adds.
Rep. Synar notes that DOE's proposed rule was opposed by every single one of the 32 agencies, organizations and individuals who

"The Nuclear Regulatory Commission said that the proposed rule probably was illegal and warned that it could wreak havoc with many of the Commission's regulatory programs for the private sector. Environmental Protection Agency also opposed the rule. Frankly, in the face of all this opposition. I don't know why DOE hasn't withdrawn the rule. Instead they've been 'reviewing' it since last March," Rep. Synar says.

RULE WOULD EXEMPT DOE

In effect, the proposed rule would exempt DOE mixed waste from the Resource, Conservation and Recovery Act (RCRA) and state bazardous waste laws on the basis of how the waste is produced and irrespective of whether the waste contains chemically haz-

The rule would accomplish this by defining as "Byproduct Material" all of DOE direct process wastes. RCRA exempts Byproduct Material from its requirements.

NRC has interpreted Byproduct Material to include only radioactive materials. But DOE's proposed rule attempts to "clarify" the term Byproduct Material so that it applies to nonradioactive hazardous as well as radioactive components of mixed waste.

Under the rule, there could be two DOE mixed waste streams with identical chemical and radioactive properties, but because of how they were produced, one could be classified as mixed waste and subject to

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water standards, but had not installed appro-water standards, but had not installed appro-lin their letter, the 70 legislators ask Mr. Herrington to withdraw the rule and in the place, issue immediate policy guidance that brings DOE into line with what NRC and

EPA are doing for the private sector.

NRC and EPA have decided to address both the chemical as well as radioactive lasards of mixed waste and they have taken the position that any mixed waste that contains chemically hazardous components that should be subject to RCRA and state law. are to be subject to RCRA and state laws

"Congress clearly intended RCRA's regalatory scheme to be comprehensive and to apply to federal facilities in the same map ner, and to the same extent, as the privale sector," the 70 members told Mr. Herrington DOE's proposed rule "thwarts the intent of RCRA," they say.

Allied-Signal

Continued from Page 9

for the third 1986 quarter were up 49 percent to \$22.9 million from \$15.4 million, noted Edwin E. Tuttle, Pennwalt's chairman and

the Chemicals & Natural Resources Group which posted an 80 percent increase in ear ings from \$14.7 million to \$26.7 million.

GAF's third-quarter income before ertraordinary credits reached \$24.5 millions; compared with \$15.6 million a year ago, as: increase of 57 percent.

This was the eleventh consecutive quarter increased earnings, comments Samuel J Heyman, chairman and CEO. Operating profits increased 26 percent to \$29.3 million from \$31.1 million, Mr. Heyman notes.

Witco reported record net income for the third quarter and for the first nine month Income in the quarter amounted & \$17,208,000, an increase of 8 percent on \$15,948,000 a year ago.

William Wishnick, Witco's chairman, sail the income growth was mainly attributate to capital improvements which have resulted in more efficient production process Alsı RCRA, the other could be classified as cited were lower costs of raw materials

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Superfund Bill Continued from Page 3

the chemical industry will pay 20 percent of the petroleum tax, or \$550 million, and \$250 million of the broad based ton for a higher National Audubon Society.

Chemical Manufacturers Association, \$2.2 billion. which called the bill an "acceptable compromise" that will "strengthen and extend" the national cleanup program, said it was pleased the President decided to approve the measure so EPA can resume full-scale cleanup activities.

Money — Authorizes spending \$8.5 billion for waste dump cleanup activities over five years. This is up considerably from the \$1.6 billion budgeted for the program's first five years and \$3.2 billion more than sought by

On top of the \$8.5 billion is \$500 million for a new program to clean up leaking underground storage tanks, a growing environmental concern because of the danger they pose to drinking water sources.

BROADER TAXATION Who Pays? - During superfund's first five years, the petrochemical and petroleum industries paid \$1.4 billion in taxes. The new

law spreads the burden by creating a broadbased tax on manufacturers with \$2 million or more in annual profits. This provision, strongly opposed by the President, is expected to generate \$2.5 billion over five

Under the new tax structure, oil companies will pay \$2.75 billion; petrochemical feedsdtock producers \$1.4 billion; and the freasury Department will contribute \$1.25 billion in general revenues.

The remaining \$600 million will come from interest on superfund monles and cleanup costs assessed against companies responsible for the waste in a particular dump. he leaking underground tank program will e financed by a .13 cent-a-gallon tax on mo-

Inaddition to the \$1.4 billion feedstock tax,

million of the broad-based tax for a total of

To the relief of all superfund taxpayers who had feared the tax might be imposed retroactively, the bill provides for the tax to become effective January 1, 1987. Schedules — EPA will be required to begin

cleanup work at a minimum of 375 of the Here are the highlights of the new super-fond law signed by President Reagan Octofive years. The agency must also draft cleanup plans for between 275 and 650 sites

during the same period.

The bill gives EPA four years to evaluate the 20,000 or more dumps in the national inventory to determine which ones should be added to the National Priority List, making them eligible for cleanups under superfund There are now some 900 sites on the list or

proposed for listing.
Cleanup Standards — The bill requires superfund cleanups to render sites to minimum nealth standards set by a variety of Federal environmental laws covering the quality of air and water and disposal of toxic sub-

This is a response to criticism that some superfund cleanups created worse problems and in some cases merely shifted waste from one leaking site to another.

EPA can waive the standards only in instances where following them would be technologically impractical or could cause greater harm to the environment. In states that have tougher standards than those contained in the $\overline{\mathbf{F}}$ ederal law, the state standards will apply.

A review of cleaned-up dumps must be conducted every five years to ensure that waste materials are not escaping. The legislation mandates that EPA use permanent treatment techniques when feasible.

Right-To-Know - In a response to the Bhopal, India toxic gas leak tragedy of 1984 and chemical leaks in the US, the bill requires large chemical manufacturers and users to

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file public reports about daily emissions of hazardous and toxic substances from their plants during routine manufacturing.

The law also calls for comprehensive emergency planning and response procedures to be used following an accidental release. The provisions allow for trade secret protection, and for citizen suits and penalties to enforce the requirements.

Chemical industry spokesmen say the right-to-know requirements are expensive and burdensome, and EPA says they will be difficult to administer.

Settlements — Congress rejected efforts to soften the 1980 superfund law's strict li-ability scheme, which makes any company that contributed to a waste site potentially responsible for the entire cleanup cost.

Language was added to encourage responsible parties to settle claims brought by EPA. The new law also creates a Federal statuteof-limitation standard designed to make it more difficult for companies to use restrictive state damage laws to avoid lawsuits by citizens who claim injury due to toxic substance exposure.

Federal Facilities — The law seeks to close a big gap in the original law: its lack of application to toxic wastes produced by Federal activities, principally those of the Def-

gense and Energy Departments.
For the first time, Federal sites will come under the same requirements as private chemical and radioactive dumps. There are about four dozen Federal sites on the EPA priority list.

Norsk Hydro

Continued from Page 9

capacity of 60,000 tons of magnesium. The new plant will make Norsk Hydro, which already accounts for 25 percent of world production, the leading magnesium producer in the world. The site selected allows possible expansions in the future. Magnesium produced at Becancour will be sold in North America and overseas markets.

Norsk Hydro intends, in its purchasing, to

use local suppliers whenever they are competitive. As a result, the company expects that a large part of its equipment and secvices will come from Canadian sources.

Magnesium oxide, containing raw maler als, will be brought to the plant by sea and rail. The final decision on the source of rematerials has not been made.

Norsk Hydro also announced that it by concluded a 25-year agreement with Hydro Quebec for supplies of hydroelectric power.
The contract provides for additional power the event the plant's magnesium production capacity will be expanded.

The federal and provincial authorities are in favor of Norsk Hydro's plans to bulk magnesium plant in Canada, and bave given assistance during the planning stages.

The plant will be owned by Norsk Hydro

Canada Inc., a company in the process of being formed. It will be established in Queba as a wholly-owned subsidiary of Norsh III

Damon Biotech

Continued from Page 4

tech's t-PA have been very encouraging and pre-clinical trials are now underway.

Robert P. Schneider, president and old operating officer of Damon Blotech stated "We are very excited by the progress of our t-PA activities so far. Although it is by to means certain that we will be able to me clude such an arrangement, joining lores with a major pharmaceutical company with respect to our t-PA activities would be a very significant event for the company and amilstone in its financial and business develop-

Damon Biotech, a majority-owned sisidiary of Damon Corporation develop manufactures and markets blomedical proucts through the application of its prop. etary technologies — the cellular enhance technology and the "Encapcel" system 12 company is a leading contract supplier monoclonal antibodies to the health-care

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COATINGS & PLASTICS

Carbon Black Makers Face A Second Round of Oil Hikes

increases this month, which raised barrel prices from \$9.50 to \$11 per barrel; now, they are bracing themselves for additional \$1.50-per-barrel hikes set for mid November. So far Exxon, a major supplier of the oil feedstock, has announced CBO increases effective November 13th. Other producers are reported to have announced similar in-

Prices for crude oil, specifically, for No. 6 fuel oil, to which CBO is closely linked, have increased to \$15 per barrel; recent OPEC developments are expected to boost prices further by the end of the quarter. Although the new CBO price hike may be withdrawn, pigment producers feel that crude oil values are definitely firming; with each \$1-per-barrelincrease resulting in a 0.5 cents per pound rise in production costs, the effect on margins will be considerable in what is already a depressed market.

Prices for the colorant have fallen a total officents per pound since January; they were last cut by a penny per pound in late July, when CBO prices plummeted to a record low of \$9.50 per barrel. The oil was sold for \$21.50 per barrel last December.

Current selling prices for J.M. Huber Corporation's N-500, N-299 and N-700 grades are still given as 21.25 cents per pound, 24 cents per pound and 21 cents per pound, respecively. Equivalent product lines of other producers are said to be similarly priced.
SOFT DOMESTIC DEMAND

Domestic demand, which began to suffer with the start of automobile and tire downsizing in the early 1980's, was dealt a serious blow in 1984, when carbon black exports from Canada and Mexico shot up 50 percent, and the US became a net importer of the

pigment.
Since that time, finished tires and rubber and plastic imports, especially from the Far East, have further depressed demand, which fell by 11 percent last year.

This year, producers have been encouraged by a better domestic trade balance. Both Canada and Mexico, which together account for over 90 percent of all carbon black imports, exported less to the US. Where domestic imports exceeded exports by 81 millon pounds in 1984 and 74 million pounds last year, the figure will fall to between 45 and 50 aillion pounds this year, producers say, respening an additional 24 to 30 million ounds of the US market to domestic produc-

Through July, imports fell by almost 30 percent overall. Canadian exports to the US were down 21 percent, mostly because of a

Producers of carbon black faced a mund of carbon black oil (CBO) price plants. Exports from Mexico fell by 11 percent over that same period, as government controlled CBO prices were raised. Mexican producers had long benefitted from nominal raw material costs; although these are still lower than "world" prices, one producer says

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

COATINGS INDEX

The Coatings & Plastics index reflects the prices of 13 representative materials in this sector and the quantity of each

F. 024004 III 1900.	
Oct. 24, 1986	308
Oct. 17, 1986	306
Sept. 26, 1986	308
Oct. 25, 1985	308
	400.

Chemical Prices Start on Page 40

the increases have definitely brought prices for Mexican material more in line with those of other world producers, blunting its competitive edge in the US carbon black market. With rising row material costs and still fairly soft US demand, producers hope this drop in imports signals a return to domestically-produced pigment; so far, however, they report that any relief in this segment of the market has been more than offset by increased imports of finished rubber products. The number of finished tire imports has increased substantially over last year's figure. Some expect US demand to fall an additional 5 percent this year.

Overcapacity continues to dominate the industry; producers describe current capacity utilization rates as being close to Summer's levels, or between 75 percent and 80 percent of a total nameplate of 3.2 billion pounds per year. The industry went through considerable restructuring earlier this year, when Phillips, a major producer, left the

PLASTICS ADDITIVES

PHTHALATE PLASTICIZERS - Producors and other market watchers question the unusually high phthalate plasticizers export figure which the government reported for August. Bureau of Census trade statistics for the month showed exports totalling 34.4 Continued on Page 32

COATING & PIGMENT IMPORTS: AUGUST

CENSUS BUREAU REPORTS ON THE TOP PAINT MATERIALS.

Antimone	AUGUS	T 1986	JUL	Y 1986
Animony oxideibs.	QUANTITY	\$ VALUE	CUANTITY	\$ VALUE
Chrome and Disck.	2,194,411	1,354,735	2,804,117	2,516,844
Chimmo and	12,725	74,345	10,019,857	2,760,681
Notybdale green ibs. Yellow ibs. Zing Yellow	322,172	336,532	563,016	842,758
Zing to district the same of t	129,829	146,638	202,458	218,447
Yellow ibs. Cotali Oxida	434,746	303,371	382,313	284,495
Zinc Yellow ibs. Cobair Oxide ibs.	152,998	95,178	283,203	174.848
100 L	22,046	114,850	1,900	55.795
Curous Oxide bs. Curous Oxide bs. You blues bs. You oxides, hydroxides, nat'!	40,000	35,298	128,184	101.528
Smu ballonides man	386,995	474,404	413,800	533,939
Black	230,106	51,992	82,050	17,765
Redibs. Yedowiba, HSPP	148,440	49,421	400,266	117,035
	2,213,735	310,494	1,049,626	263,097
URana Tana Ulas	1,790,855	418,775	3,087,990	691,966
	912,479	1.443,568	1,650,414	1,034,651
MORNO LI	2,918,416	684,264	2,835,478	545,022
	243,000	£2,921	94,000	21,128
	160,415	366,497	123,265	334,083
lighter of the light of the lig	114,118	11 200,766	171,950	249,534
the marine below the state of t	747,749	679,457	290,384	205,844
Tackin dloxide Ibs.	85,222,520	21,726,215	36,842,570	21,275,249
tiganarine blues. ibs. Single or	681,616	685,037	676,717	663,164
included (lead free)	3,912	2,134	N/A	
The state of the s	8,677,868	2,851,686	11,068,609	3,485,688

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CHEMICAL MARKETING REPORTER

HEAVY & AG CHEMICALS

Peroxide Makers Continued from Page 3

tree regeneration rate much higher than in Canada. Growth estimates for the pulp and paper industry vary, but overall, 1987 growth is estimated to be between 8 and 10 percent, with the Canadian market expanding as much as 15

One producer notes that 1988 growth may ot be quite as spectacular since no new pulp nill construction is expected that year.

Following pulp and paper, environmental applications are looked to next as filling the imminent supply/demand gap. Companies like Degussa and Interox say their experience in Europe gives them a clue to where the

US environmental market is going.
Probably the most talked-about application is bioreclamation (CMR, 8/4/86, pg. 3). The field is new and fairly broad, but in general refers to the in situ generation of oxygen to enhance normal biological processes. The most promising bioreclamation application seems to be in cleaning up underground or-ganic chemical contamination from leaking storage tanks.

Less esoteric environmental applications are also promising. Degussa notes that in Europe peroxide has commercial use in the treatment of waste air such as SO2 and NO... While current EPA emphasis seems to be on waste water treatment, Degussa expects activity in air treatment to pick up in the future.
WASTE STREAM "POLISHING"

A waste water treatment area that producers expect to grow is in waste stream "polishing," where an effluent stream cleaned by traditional methods is given a final treatment with peroxide to bring it up to proper specifications. Overall, stronger environmental legislation on the Federal, state and local levels is expected to create a real need or more complete wastewater treatment.

Peroxide use in uranium mining has been on the wane for many years, victim of nu-clear energy's woes. Producers say that gold mining, however, is a prospective new mar-ket. Most gold is extracted through a leaching process involving sodium cyanide. In some mining areas, cyanide-contaminated solutions can be collected in ponds and allowed to slowly oxidize. In other areas, though, groundwater contamination is a real probem, and a faster cyanide destruction method, such as oxidation with peroxide, is

The gold mining business has been spurred lately by rising gold prices. Degussa, which considers itself the leader in this field, expects five million pounds of peroxide to be used in this application next year, up from

practically nothing this year.

An area that, according to one producer, could create over 30 million pounds per year of peroxide demand, is in the detergent field. Market sources say that major home laundry detergent makers such as Proctor & Gamble and Unilever are test marketing detergents containing peroxygen bleaches, the most prominent bleach being sodium perborate

One observer says it takes approximately

Committee and the section

25 pounds of hydrogen peroxide to make 100 pounds of sodium perborate. Du Pont is the only US producer of sodium perborate, la tetrahydrate form. Degussa and Interox bolh make the monohydrate overseas.

Initial indications are that the detergent test marketing is quite successful, and peroride producers expect a commercial entry in the not too distant future. Sources say that if the commercial laundry product was succesful, most peroxide makers would begin production of sodium perborate or other peror.

PRICES TRENDLINES

WEEK ENDING OCT. 24, 1986

CHANGES/UP

CHANGES/DOWN

HEAVY & AG INDEX

The Heavy & Ag Chemicals index reflects the prices of 18 representative materials in this sector and the quantity of each produced in 1985.

Oct. 24, 1986 Oct. 17, 1986 Sept. 26, 1986 113.69 Oct. 25, 1985 113.69

Chemical Prices Start on Page 40

ides in the US. Du Pont, it is felt, wor initially have the upper hand as conversi from the tetrahydrate to the monohyd perborate is relatively straightforward.

Looking further down the road, peroxi has a potentially vast market in the trainment of waste collulose. Scientists at the University versity of Illinois are working with peroxic on ways to convert normally discarded a cultural byproducts such as wheat strawa corn cobs into feed that is digestable by run

US Department of Agriculture estima that a 1 percent penetration by cellulos waste material into the animal feed marks would consume 27 million pounds of peror ide; a 5 percent penetration would consum over 200 million pounds. The technology make this use commercially viable has n been fully demonstrated, however.

A small but quickly growing market for hydrogen perioxide is in asceptic packaging One producer puts its current size at two k three million pounds per year and estimate annual growth of over 30 percent.

Milk and juices packaged in foil-lined pa per containers are increasing in consume popularity and peroxide is used to sterilise in the consumer of the containers are increasing in consumer per containers are increasing in containers are increasing in containers are increased and increased are increased are increased and increased are increased are increased are increased and increased are increased are increased and increased are increased are increased and increased are increased ar package's foil surface. Traditional steriliza tion methods are out because of the paper's

BASES & SALTS

SODIUM BISULFATE — Jones-Hamilto Company, of Newark, Calif., notes that

. The same of the

INORGANIC CHEMICAL OUTPUT: JULY

SELECTED FIGURES IN SHORT TONS FROM THE CENSUS BUREAU.

Aluminum suifete acomes-i-i	JULY '86	JUNE'86 JUL
Aluminum suifate, commercial	112,604	106,463
Calcium carbide, commercial	17,101	106,463 16,113 44,089
	43,671	44,282
Caustic sode, dry	17,102	44,282 15,591 16,599
	943,081	940,130
Chlorine, gas.	906,624	898,900
Chlorine, liquid	712.852	705,889 73
Hydrochloric acid	279,600	274,802
Hydrofluoric acid	16,330	16,137
Hydrogen peroxide	10,703	15,137 11,484
Phosphorus, elementaj	29,770	27,850
Phosphorus oxychloride	2.371	27,850 2,111
Phosphorus pentasulide	6,408	6,165
Phosphorus trichlorids	7,933	8,126
Potassium hydroxidd, liquid Potassium pyrophosphate, anhyd. Sodium chlorate	.,000	
Cotassium pyrophosphale, anhyd.	1,693	1,938
Sodium chiorate	20,258	21.090
Sodium metaj		The second second
Sodium sulfate, anhyd	62.061	69,286

HEAVY CHEMICALS

has changed its price structure for sodium

The changes were effective October Sodium bisulfate in drums now costs \$15 per hundredweight, up from \$13 per hundred-weight. The East Coast price remains \$13 per hundredweight. Additionally, the bulk price is now \$185 per ton in the West, up from \$175 per ton. The East Coast price remains \$175

SODIUM CYANIDE — E.I. du Pont de Nemours & Co. changed its price structure for "Cyanogran" and "Cyanobrik" sodium evanide, effective October 15. Th former product is in granular form, while the latter s in briquette form.

The new price for both products is 71c. per pound, delivered. The price was previously 88c. per pound, f.o.b. plant.

FERTILIZER MATERIAL

FISH MEAL - Production of fish meal in the leading exporting countries is up by 7 percent in 1986 compared to 1985, according to International Association of Fish Meal Manufacturers (IAFMM), which recently held its annual conference, in Lisbon.

Manufacturers estimate 1986 production at 3.05 million tons, up from last year's 2.85 million tons. This is largely because of increased South American production.

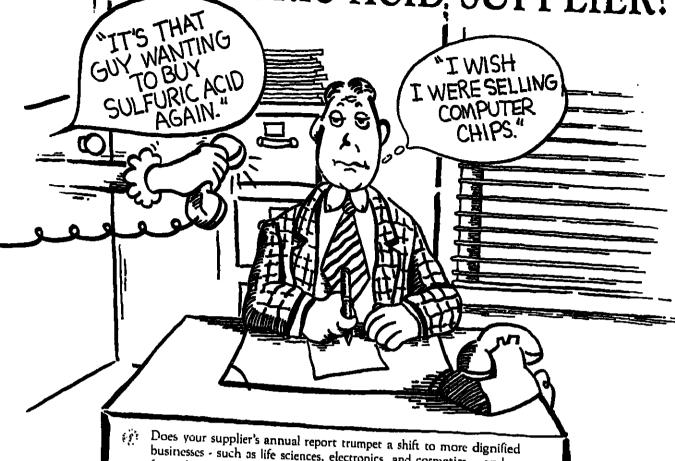
Despite greater production, stocks are estimated to be 260,000 tons, down from 450,000 tons at the beginning of the year. A spokesman for Chile, the world's largest exporter of fish meal, says only 5 to 10 percent of his country's quarterly stocks were unsold compared to the usual total of 30 to 50 percent. He adds that recent price increases reflect the stock situation. A trade source agrees that the market is firm. Menhaden fish meal costs between \$310 and \$320 per short ton, while Gulf Port fish meal is between \$315 and \$320 per short ton. The Chilean material is \$335 per short ton, f.o.b.

Exports from the main producing counties are up 10 percent, according to Fish Meal Exporters Organization. The organizationestimates exports to be 2.85 million tons, up from 1985's 2.6 million tons. Last year's export total, in turn, was 25 percent higher than 1984's total. Exports to the US, though, are about the same as in 1985.

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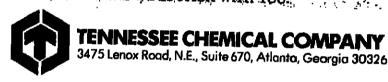
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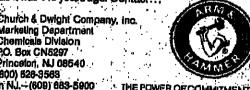


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COATINGS & PLASTICS

Continued from Page 29

million pounds, valued at \$3.6 million dollars, or about 11c. per pound, while list prices for linear and cyclic phthalate plasticizers such as DIDP and DINP are well over 50c. per pound. Shipments of these plasticizers rarely exceed 500 tons per month, and many conclude that some classification error was

One analyst traces the source of this error to a listing of one shipment of 28.9 million pounds to France at a value of \$948,081. or 3c. per pound, clearly an impossibility. He speculates that the figure may have included other esters or related compounds. Without it, a total export volume for August of 5.5 million pounds at \$2.6 million, or around 50c. per pound, seems reasonable.

Producers report that the 2c. per pound October price increase has been holding.

Selling prices, once 20 to 30 percent below list, are now approaching list values, producers say. High raw material costs should continue to pressure margins, however. Supplies of 2-ethyl hexanol (2EH) are still extremely tight. So far, Union Carbide Corporation is the only US producer to have boosted butyraldehyde production, and this primarily for n-butanol, rather than 2EH, production. Similarly, phthalic anhydride and trimel-

litic anhydride supplies are expected to re-

main tight. **PLASTICS MATERIALS**

PHENOLIC RESINS — Producers report that phenolic resin price increases set for October 15th and 24th were "rescinded almost as soon as they were announced," as makers of phenol were unable to realize 2c.per-pound hikes planned for October 1.

Phenol producers in turn blamed phenolic resin makers, who account for almost half of their total customer volume, for the failure of the raw material price increase. Of the four leading US producers of resin, only Borden Chemical Company and Reichhold Chemical Company raised prices for their phenolic resin product lines when phenol cost increases were announced.

This year, all attempts to raise prices for both phenol and phenolic resins have failed. Prices for the aromatic plunged with crude oil early in the year, and resin prices followed suit. Despite fairly strong demand in con-struction-related markets, selling prices for the resin slipped by around 10 percent this

At least one producer of resin feels that the increase "is still justified" in light of price erosion and strong demand, as well as higher production costs; expenses have risen in excess of raw material savings, he says, and

margins have been squeezed this year.

POLYSTYRENE — Other producers of

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Polyethylene Unit for Taiwan Will Use the Carbide Process

IISI Far East Corporation will build a Petroleum Corporation's first, second, third USI Far East Corporation Carbide Carbide Corporation Carbide C tion's gas-phase "Unipol" process.

According to USI Far East chairman Anto-

polystyrene are still deciding whether and to follow American Petrofine's less in the control of the control of

Makers of the resin are unanimous be scribing October's increase as messali

Although most feel that the new moons

increases will warrant a second increase,

producer questioned whether Petrolin

move was an actual increase or a real

ment of October's incresse to contracte

increase; the firm claims to have seen seen

penny of the October increase, and will be

higher prices in order to cope with high

Producers report that this is a diffic-

time to adjust prices; if a second wait

polystyrene increases does come about to

quarter will be a more feasible time to

METAL DRIERS - Nuodex Inc. wils:

reducing list and selling prices for he to tra" synthetic metal driers and "Node"

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strengths)
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MISCELLANEOUS

Petrolina maintains that this is a seem

light of strong demand and high cape

raising prices for the polymer.

utilization rates.

nio T. Chong, the planned new 120,000 metdetons-per-year facility will be capable of producing a wide variety of linear low-density polyethylene resins for film and other

Construction is slated to get underway early next year and the plant is scheduled to be completed and in operation by mid-1989. "Completion of the new plant, which will be the first Southeast Asian LLDPE plant, will cap a facilities expansion and modernization program begun in 1983 and aimed at bolstering our position as Southeast Asia's leading producer of polyethylene," Mr. Chong

According to Mr. Chong, the process advantages include reduced investment and operating costs, compressed construction timetables, and "a unique ability to satisfy the specific product needs of our market."

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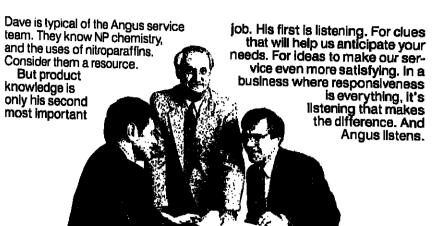
high-pressure low-density polyethylene and two high-density polyethylene lines. Low-density polyethylene annual capacity mea-sures 140,000 metric tons and annual capacity for high-density measures another 80,000 metric ions. Upon completion of the proposed expansion, total annual polyethylene capacity is estimated to reach 340,000 metric tons. Product offering at that time will include low-density polyethylene, high-donsity polyethylene and linear low-density

Enzon Seeks Okay

Enzon, Inc., South Plainfield, N.J., has filed with Food & Drug Administration for approval to begin human trials using two of the company's modified enzymes — PEG-superoxide dismutase (PEG-SOD) and PEG-catalase (PEG-CAT). The substances are intended for use in treating discontant tended for use in treating disorders resulting from oxygen toxicity, which often causes fatal damage to tissues after burns, kidney transplants and heart attacks.

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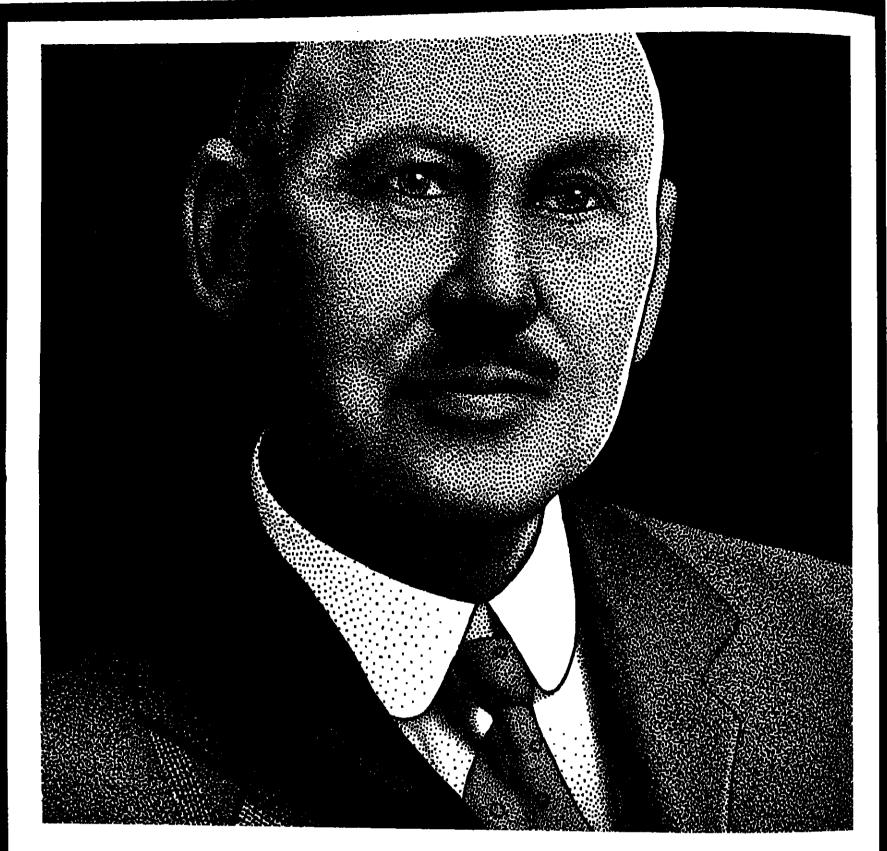
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Senate Shifts

Continued from Page 5

tee would occur at the subcommittee level. where Sen. Howard Mctzenbaum (D-Ohio) is the second ranking Democrat behind Sen.
Patrick Leahy (D-Vt.) on the patents and
trademarks panel. Sen. Metzenbaum, who is a staunch opponent of patent extension. would be in a better position to block atempts by the National Agricultural Chemicals Association to move patent term restoration legislation.

Sen. Mathias, the retiring chairman of the patents subcommittee, sponsored patent legislation for NACA in each of the last two Congresses, and helped win Senate approval

At the Agriculture Committee, which has lurisdiction over the Federal Insecticide. Fungicide & Rodenticide Act, it is uncertain hether Sen. Jesse Helms (R-N.C.) would retain the chairmanship or take over the For-eign Relations Committee, where he has senlority over Sen. Richard Lugar (R-Ind.).

Should Sen. Helms move to the Foreign Relations chair, Sen. Lugar would take over at Agriculture — a switch that would cause little consternation among major agrichemi cal companies since both senators sided with the chemical industry on most FIFRA issues during the debate this year.

It's also unclear who would chair the committee if the Democrats win control of the Senate. Sen. Leahy has the most seniority, but he has taken a back seat to Sen. Edward Zorinsky (D-Neb.) to serve as vice-chairman of the Select Intelligence Committee.

LEAHY TO AGRICULTURE?

But with his term on the intelligence committee up, Sen. Leahy could take over a Agriculture — an unwelcome prospect for the chemical industry. While Sen. Zorinsky successfully added patent extension provisions to the committee's FIFRA bill this year, Sen. Leahy fought to toughen ground-water and liability requirements on the in-

At the Environment & Public Works Committee, a Democratic victory would put Sen. Lloyd Bentsen (D-Tex.) in line for the top spot. But Sen. Bentsen, a strong advocate for the oil and petrochemical industries, would instead choose to chair the powerful Finance

Sen. Quentin Burdick (D-N.D.), a low-key lawmaker who has shunned committee chairmanships in the past, is next in line. Since he will be up for re-election in 1988, another such move seems unlikely.

After Sen. Burdick and the retiring Sen. Gary Hart (D-Col.) is Sen. Daniel P. Moynihan (D-N.Y.)

Sen John Danforth (R-Mo.) would retain his chairmanship of the Commerce, Science and Transportation Committee with a Republican victory, but Sen. Ernest Hollings (D.S.C.), a strong foe of product liability reform, would assume command if the

The senior Democrat at the Energy & Natural Resources Committee is Sen. J. Bennett Johnston (La.), is a strong supporter of the ^{ener}gy industries.



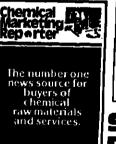
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Ozone Shield a Puzzle Continued from Page? thought of," said Ms. Solomon. She said she was "more concerned" than she had been

before the expedition began in August, because science has been "unable to come up with an explanation."

But Ms. Solomon said she believes the team's research has eliminated two theories that the ozone depletion is a natural process. One of those theories proposes that the

11-year solar cycle is responsible, by trigger-ing chemical reactions that have a cumulative effect. This would explain why the Antartic "hole" did not appear before the

The other postulates that slight changes in wind patterns resulting in an upward movement of air masses could be responsible.

Ms. Solomon said the cause could be a combination of chemical pollution and a variety of natural events, including the seasonal evaporation of stratospheric clouds over the polar region. "It's much more complicated than theories have suggested so far," she

The phenomenon is a seasonal event, occuring every Southern Hemisphere Spring, but the depletion has worsened during the past several years.

Scientists are concerned because the thin zone layer in the stratosphere is the Earth's primary barrier from dangerous amounts of ultra-violet radiation from the sun.

Environmental Protection Agency esti-Environmental Protection Agency estimates that each 1 percent decline in ozone at shares might be made available to make high altitudes may result in 200,000 more ment was incorrect.

skin cancers around the world every year. Increased ultraviolet sunlight reaching it. Earth's surface would also have an about impact on plants and marine organism, st entists say.

Concern about the ozone layer was find raised in 1974 when two University of Ca fornia scientists discovered that chloring leased from chlorofluorocarbons candelin ozone molecules.

The gases have since been banned by EPA as acrosol propellants, but they are m widely used as refrigerants and for industry

Although the cause of ozone depletion is not been proven, the major US producted chlorofluorocarbons recently said the would support, if necessary, a global limbe the future rate of growth of fully balogoub CFC production capacity.
The leading producer, E. I. du Ponté

Nemours & Co., said it would be willing back a cap on current production and pe gested that safer substitute could be dear oned within five years.

USX Stock Correction

The 28 percent of its capital stock belg nurchased by Aristech Corporation, success sor to the Chemicals Divison of USX Copper tion, will be retired. The speculation in the

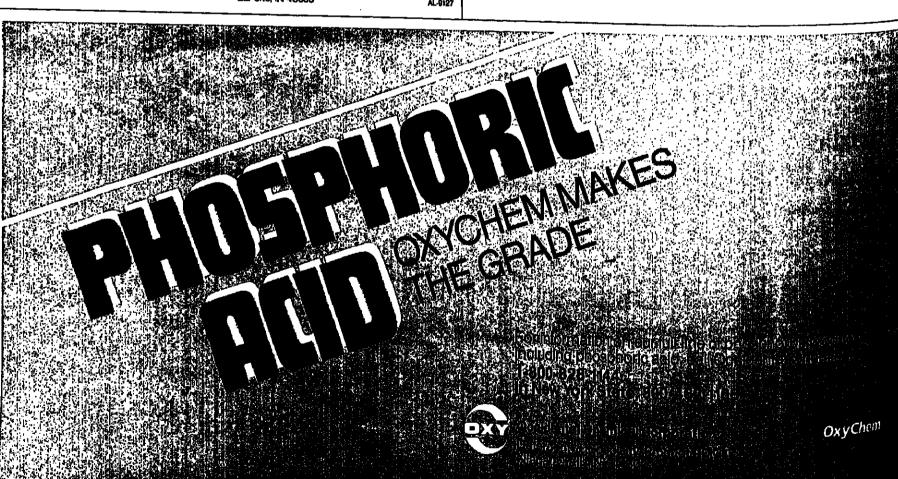
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PERFUMES & FLAVORINGS

Camphor Oil Market Is Firmer As Production, Usage Decline

Camphor oil prices firmed last week, up 10 cents from \$2.40 to \$2.50 per kilo have been consistently offering their material in large quantities and at prices in line with the Egyptian product." white 35 percent and up 20 cents from \$4.90 to \$5.10 per kilo for camphor oil 1.070. Formosan white 86/88 spot prices also firmed recently, up 25 cents to over \$2 per pound. Industry sources attribute the increases to a decrease in production and the stronger influence of synthetic camphor powder.

Imports of all grades of camphor oil are well below the 1985 pace: 22,915 pounds have been imported to the US from January through August, 1986, as versus a 1985 yearend total of 153,214 pounds.

Because all of the natural camphor oils are byproducts of refining camphor powder from crude camphor, the natural oils market is linked to the success of natural camphor owder. "Without demand for (natural) powder," explains a market analyst, "there rould be no production of camphor oil."

Synthetic camphor powder production has een stepped up in 1986 to where it has substantially affected both production of and demand for natural camphor powder. Chinese producers have helped to drive the powder prices down by offering two grades of synthetic camphor powder at competitive prices. Chinese technical grade synthetic camphor powder is quoted at \$1.90 per kilo, cost and freight China, and Chinese BP grade Is \$2.40 per kilo same basis.
"NATURAL CAMPHOR SCARCE"

"Synthetic powder is very inexpensive so astural camphor powder is becoming scarce," says an industry source. An essential oils broker agrees: "The synthetic camphor powder is steadily undermining the natural powder on the market." With a weakened demand for natural material, production has slowed and the quantities of natutal camphor oils yielded as byproducts thereby diminished.

Taiwan, the major source for natural camphoroit with 97 percent of total US imports in 1985 and 89 percent of the imports from January through August, 1986, is reportedly cut-ling back production. "Talwan isn't collecting the raw materials to make the powder or s byproducts," says another essential oils

The result of less availability and a proected decline in camphor oil production has been firmer pricing. The various grades of while camphor oil are the most widely used and its prices have been the first to be af-

Yellow camphor, because it's a compara-ively small item of no more than a few tons imported annually, has remained steady, and ources don't expect it to firm. "There is no endency at this point to raise prices," says

Camphor 1.070 is likely to be further affected by the lessening of natural powder moduction despite its despite the distribution of the life. production despite its drawbacks: "Very litle 1.070 is being imported these days," ob-serves an essential oils importer, "because of the carcinogenicity of the safrole it con-tains. Pricing for 1.070 is expected to be firmer as usage declines. "Ocotea cymharum is a comparably priced material," sysan importer, "without the carcinogenic-

GERANIUM OIL — Geranium oil prices inse material, and the scarcity of bouringeranium oil on the market. he shipping price of Egyptian oil slipped described by the shipping price of Egyptian oil slipped described by the same basis. The Chinese oil spot the also fell \$1 from \$23.50 per pound to

Mild per pound to the 1986 Egyptian geranium oil crop was well the 1985 crop," says an essential oils causing the prepagators of the prepagators o it, "causing the prices to soften." An sailal oils importer emphasizes the Chiwith the Egyptian product."

Bourbon geranium oil from the Reunion islands "has been very difficult to get," ac-cording to an oils importer. "They've set up an allocation or quota system for distribution that makes large purchases next to impossi-

The bourbon geranium oil is the most expensive of geranium oils with a spot price of around \$55 per pound. Its higher price is a

PRICES TRENDLINES

WEEK ENDING OCT, 24, 1986

CHANGES/UP

Camphor Oli, 1.070, 15c. per kilo Camphor Oli, Chinese white, 10c. per kilo Cassia, Indonesian and Chinese, 8-10c. per lb. Dill seed, Indian recleaned, 4c. per lb. Dili seed, molen recreaned, 4c. per lo Ginger root, Jamalcan, 10c. per lb. Mace, Padang sitings, 10c. per lb. Poppy seed, Dutch, 3c. per lb. Poppy seed, Australian, 10c. per lb.

CHANGES/DOWN

Caraway seed, Egyptian recleaned, 2c. per ib. Cardamoms, Indian bleached, 25c. per ib. Celery seed, Indian, 1c. per ib. Cloves, Brazilian, 5c. per ib. Eucalyptus Oil, Chinese 80%, 5c. per ib. Geranium Oil, Egyptian, \$1 per kilo Orange Oil, Israeli, fob 10-14c. per ib. Spearmint Oil, Native fob, \$1 per ib. Tangorine Oil, Brazilian fob, 65c. per ib.

PERFUMES INDEX

The Perfumes & Flavorings index reflects the prices of 11 representative materials in this sector and the quantity

or each supplied in 1905.	
Oct. 24, 1986	71.00
Oct. 17, 1986	71.00
Sept. 19, 1986	71.00
Oct. 25, 1985	71.00
Chemical Prices Start on Page 41	

result of higher production costs and limited availability. Another source ascribes the institution of the quota system in Reunion to an effort to avoid the historical practice of adulterating the oil.

CASSIA — Cassia spot prices recorded a 10c. per pound increase across the board last week. Indonesian Korintji "A" through "C" also jumped in the futures market 8c. to 10c. per pound for delivery through January, 1987 and 5c. to 10c. per pound for delivery from l'ebruary through April, 1987. Interest in Indonesian cassia was spurred

on by the Indonesian government's announcement that cassla will be offered according to the "single selling system," beginning November 1. The arrangement would be similar to the current one in place for the sale of Indonesian nutmeg where a single agency is interposed between producers and foreign buyers, thereby giving the government control of prices.

"The price jumps will continue," says a spice importer, "because the government has gotten involved." US importers and brokers have fought the institution of such an agency, bringing their arguments to the Indonesian government, to no avail.

"It used to be that supply and demand go ligs Egyptian harvest, wide availability of cinese material and the past week due to a along well," says a spice broker, "but now prices will become irrelevant to supply and demand."

Chinese material has subsequently been in demand and firmer at 95c. to \$1.03 per pound. "Expect Chinese material to absorb some of the Indonesian market," speculates an importer, "but it will depend on the November 1 price as to how much." Imports from all points of origin have been steady, totalling 16,903,146 pounds through August, 1986, on track to match the 1985 total of 24,092,258



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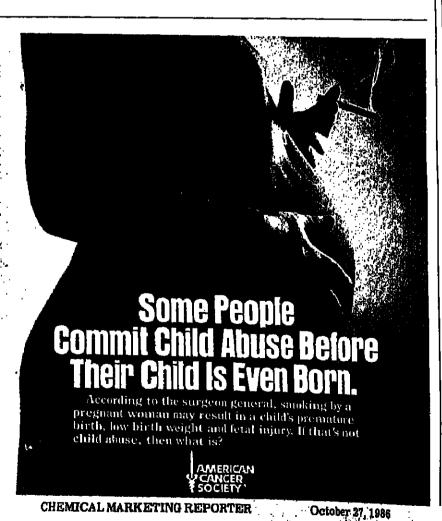
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Chemical Finance

Occidental Sets Up Anti-Takeover Defense

Occidental Petroleum Corporation, an old hand at acquiring companies including Occidental Petroleum Corporation, and occidental Petroleum Corporation Cities Service Company, Iowa Beef Processors and Hooker Chemical Corporation among others — is afraid it may eventually get a dose of its own medicine. The La among others — is attached to the same and t measure in the form of a special stock purchase right which is exercisable only under specified conditions indicative of a hostile takeover attempt. A speciminal for the company said that Occidental is not aware of any effort to acquire the company and

Gulf Resources Bids for UK Energy Concern

Gulf Resources & Chemical Corporation, Boston, Mass.-based energy and diversified concern, has made a bid of about \$1.07 billion in cash for Imperial Continental Gu Association, a British energy company with large holdings in the North Sea. At Car presstime, Imperial Continental had made no response to the unsolicited bid. As a real of the bid. Standard & Poor's Corporation, one of the New York-based debt rally agencies, placed \$100 million of the company's debt on "CreditWatch" with negative implications, citing the high leverage of the proposed transaction.

Marjon Laboratories Has Record Sales and Earnings

Marion Laboratories, Inc., Kansas City, Mo., one of the fastest growing of the health care companies, again recorded sales and earnings in the first quarter ended Sentember 30. Fred W. Lyons, Jr., attributed the strong results primarily to substantial sales growth of "Cardizem" (diltiazem) and "Carafate" (sucralfate) plus increased sales in the Casumer Products Division. Net sales rose to \$125.6 million from \$88.4 million a year ago rise of 42 percent, and net earnings soared 52 percent to \$20,740,000 from \$13.667.00

Reichhold Chemicals Doubles Its Operating Income

Reichhold Chemicals, Inc. reported that its third-quarter net income rose 38 percents \$2.5 million from a year ago as operating income more than doubled to \$6.4 million (Robert Powell, chairman and CEO, said the results indicate growing strength in & company's product line and in its manufacturing organization.

Immunogenetics to Acquire Syosset Laboratories

ImmunoGenetics Incorporated, Vineland, N.J., has signed a letter of Intent to purchase Syosset Laboratories, Inc. in Syosset, Long Island, N.Y. Syosset is a human dermatoko cal company. Subject to the execution of a definitive agreement and approval of the monoGenetics' board of directors, the purchase is expected to be completed in November

Merck Recommendation Reaffirmed on Wall Street

Drexel Burnham Lambert, Inc. has reaffirmed its recommendation of the sharest Merck & Co. Cited are Merck's dividend increase from \$1.85 to \$2.20 per share follows an increase only nine months earlier and a stock repurchase program totaling 🕅 million through the balance of this year and into 1987. Merck is generating substants excess cash and therefore can more than afford both the dividend increase and the skel repurchase program, Drexel Burnham Lambert stated.

GAF to Offer \$250 MM in Senior Subordinated Notes

GAF Corporation, Wayne, N.J., has filed a preliminary registration statement with SEC for the Issuance of \$250 million in senior subordinated notes and debentures Ri will be notes due 1994 and the other half will be debentures due 2001. Net proceeds will be used for general corporate purposes and investments or in acquisitions.

Witco Will Redeem 12 Percent Senior Notes

Witco Corporation, New York-based specialty chemical and petroleum company, for redeem its 12 percent senior notes due in 1995. An early redemption premium of 65 percent will be paid on the \$32 million principal amount of notes outstanding si william Wishnick, Witco's chairman. The redemption will be made in cash general from operations and the disposition, previously announced, of certain assets.

National Distillers Declares Dividends

Directors of National Distillers & Chemical Corporation, New York, have declar quarterly dividends of 55 cents per share on the common stock, \$1.0625 on the \$18 preferred stock, 56 % cents on the \$50 preferred, and 46 % cents on the \$1.85 prefered.

L'Air Liquide SA Accepts Shares of Big Three

L'Air Liquide SA said that its indirect wholly-owned subsidiary, AAL Acquisite Corporation, has accepted for payment all shares of capital stock of Big Three industrial Incorporated, validly tendered and not withdrawn under its cash tender offer for the constanting shares of the constant shares of the constanting shares of the c outstanding shares at \$29 per share.

Reynolds Metals Withdraws Stock Offering

Reynolds Metals Company, Richmond, Va., said it is withdrawing its proposed put offering of up to 2.3 million shares of common stock. Reynolds said proceeds from proposed sale are no longer deemed needed for the proposed venture with Pecking bec Inc. for an aluminum plant in Becancour, Que. Instead, a portion of the proceeds the sale last week of Robertshar Control Courses. tie last week of Robertshaw Controls Company will be used for

B.F. Goodrich Declares Dividends

Directors of B.F. Goodrich Company have declared dividends of 39 cents per the the common stock, \$1.9828 on the \$7.85 cumulative preferred, Series A; and \$2.55 the \$.975 cumulative preferred, Series A; and \$2.55 the \$.975 cumulative preferred. the \$.975 cumulative preferred, Series B.

Cytogen Boosts Revenues, Trims Its Loss

Carlotty over the action

Cytogen Corporation, Princeton, N.J., trimmed its third quarter loss to \$100,000 \$1 million a year ago as contract revenues jumped to \$1.7 million from primarily as a result of a new collaborative agreement with Eastman Kodst and several recently awarded grants. and several recently awarded grants.

CHEMICAL IMPORTS

US imports of chemicals and related materials are reported in this section by CPI material. Listings include consignee where possible, container, net weight, name of vessel (in parenthesis), port of origin and date of shipment's arrival in New York or the Port of Newark.

US chemical imports/exports are tabulated monthly in the market reports.

4 AMINO ANISOLE 3 SULFONIC ACID 10 dms (2,381 lbs) (Neptune Jade) Kobe, 9/22.
ACETOACET DIMETHOXY CHLORANILIDE Lonza 260

9/30.

ACRYLAMIDE Mitrans 960 bgs (55,402 ibs) (Ming Star) Kobe, 9/21.

Sandoz 480 bgs (27,701 ibs) (Ming Star) Kobe, 9/21.

ACRYLIC & METHACRYLIC ACID RESIN Mobil 80 dms (40,038 ibs) (Ming Star) Yokohema, 9/21.

ACTIVATED CARBON Deguesa 800 bgs (35,803 ibs) (Koln Express) Bremerhaven, 9/23.

ACTIVATED VEGETABLE CARBON American Norti, 880 als 40,087 ibs) (Koln Express)

sks (40.897 lbs) (Koin Express) Greenock, 9/23.
ADENOSINE DIPHOSPHATE & AMINO ACI Kyowa
Hakko 109 pkg (13,031 lbs) (Louis Maersk) Kobe,

AGAR AGAR All Transport 20 dms (2,425 lbs) (American

Onio) Rotterdam, 9/26. Janel Inii Fwdrs 50 bgs (4,440 lbs) (Koln Express) Hamburg, 9/23. Tic Gums 40 dms (4,762 lbs) (Tohbel Maru) Nagoya,

ALLSPICE E L Scott 240 bgs (26,584 lbs) (Polwind) Sto Tomas, 9/22.
ALUMINA Rhone Poulenc 22 cs (48,702 lbs) (Zim Tokyo)

Bercelona, 9/21 ALUMINUM OXIDE Trelbacher 1,403 pkg (157,761 lbs)

(Dert Atlantica) Bremerhaven, 9/23.
ALUMINUM CHLORIDE 6 HYDRATE 306 drns (28,602 ibs) (Duseeldorf Expres) Hamburg, 9/30. ALUMINUM OXIDE Lonza 23 plt (41,579 ibs) (Pilar)

Genos, 9/26. Norton 1,750 bgs (197,201 lbs) (Dusseldorf Expres) Norton 1.760 bgs (197.201 lbs) (Dusseldorf Expres)
Bremerhavan, 9/30.
ALUMINUM PASTE Synergistic Pigments 389 dins
(43,918 lbs) (Dusseldorf Expres) Hamburg, 9/30.
ALMONIA ALUM Joseph H Lowenstoin & Sons 1,600 bgs
(90,918 lbs) (Tohabe Maru) Kobo, 9/22
AMMONIUM BIFLUORIDE Kall Chemie 880 bgs (45,59)
lbs) (Dart Atlantica) Bremerhaven, 9/23.
AMMONIUM SULFAMATE Atlas Intermodal Transport
900 bgs (45,238 lbs) (Ming Star) Keolung, 9/21.
Magnakron 900 bgs (45,238 lbs) (Ming Star) Keolung, 9/21.
BABASSU OIL Croda 6 dms (2,646 lbs) (American Apollo)
Santos, 9/28.

Santos, 9/26. BALSAM Conram Intl Trdg 10 dnns (5,463 lbs) (Salint Louis) Hains, 9/19.

BARIUM CADMIUM STABILIZER Morison Chemicals

BARIUM CADMIUM STABILIZER Morrison Chemicals 1 tok (42,788 lbs) (Britta Thein) Bremerhovon, 9/20 BENZALDEHYDE Janel Intl Fwdrs 76 dins (36,526 lbs) (Dusseldorf Expres) Antwerp, 9/30.

BENZOCAINE Roussel Pharmacoutical Produ 100 dins (12,015bs) (Koin Express) Rottordom, 9/23.

BENZOQUANAMINE James E Fox 881 hgs (44,438 lbs) (Ever Greet) Hamburg, 9/24.

BENZYL CYANDE Inter Maritimo Fwdig 1 tok (42,7659 lbs) (Ever Greet) Antwerp, 8/24.

BETA HYDROXYNAPHTHOIC ACID BON S Uuno Fine Chemical Ind 700 bgs (31,481 lbs) (Ming Star) Kobe.

TA HYDROZYNAPHTHOIC ACID BON A Ucrio Fine Chemical Ind 480 bgs (26,984 ibs) (Ming Stirr) Kobe, 9/21.

BETA NAPHTHOL Montedison 1.560 bys (88,584 lbs) (Pas) Ganoa, 9/26. BLACK PEPPER Centrobank 400 bg/s (44,621 lbs) (To-

Canima) Belem, 9/13.

Durkee Foods 600 bgs (06,932 lbs) (Southorn Sky) twig Mueller 300 bgs (33,466 lbs) (Southurn Sky) Belem, 9/22.

Belem, 9/22.
800 bgs (89,242 bbs) (Bouthern Sky) Belem, 9/22.
800 bgs (89,242 bbs) (Bouthern Sky) Belem, 9/22.
8LANC FIXE POWDER N Ore & Chemical 1,400 bgs
(78,401 lbs) (Tadeusz Koscluszk) Rotterdam, 9/22.
8LIE POPPY SEED CLEANED DUTCH Transit Tridg 880
bgs (44,002 lbs) (Britta Thein) Rotterdam, 9/29.
8ORIC ACID Encham 79 drns (28,400 lbs) (Sea Land
Voyager) Rotterdam, 9/24

Younger) Action (19 cms (ec), 190 (ec), 190 (vishva Younger) Action Americas 2,520 bgs (265,657 lbs) (Vishva Panks) Leghorn, 9/20 bgs (265,657 lbs) (Vishva Panks) Leghorn, 19/20 (es) (American Ohio) Rotterdam, 19/26.

CADMUM PIGMENT Whittaker Clark & Daniels 2 dms (0 bs) (Alamto Cartler) Liverpool, 9/22.

CADMUM PIGMENT YELLOW King Shpg 10 dms (1,085 bs) (Dusseldorf YELLOW King Shpg 10 dms (1,085 CAFEINE ANHYDROUS K Hauser 250 dms (35,210 lbs) dms (21,546 lbs) (Dusseldorf Expres) Bremerhaven, 9/30.

(4.850 lbs) (Zim Keeling) Heye Colo Group 80 bgi

A.C.UM CARBONATE H M Royal 891 Mix (48,982 lbs)
(American Utah) Kobe, 9/29.
Kobe, 8/23.

383. 1830 (49,271 lbs) (American Maine) Kobe, 383. 1860 pkg (187,104 lbs) (American Maine) Kobe, 9/23. 1860 pkg (187,104 lbs) (American Maine) Kobe, 9/23. 1870 pkg (187,104 lbs) (American Maine) (Assault 192 dms (22,604 lbs) (Sea Land 197,004 lbs) (American 197,004 lbs) (American 197,004 lbs) (Maine) Alexandria, 9/30. 1870 lbs) (Ming Start Kobe, 9/21. 1870 lbs) (Ming Start Kobe, 9/24. 1870 lbs) (Ming Start Kobe

4093 (22,341 lbs) (Minerva) Fortaleza, 9/18.

Fos, 9/25. Otto Gerdau 517 bgs (78,318 lbs) (Hoegh Cairn)

Padang, 9/24 Daamhouwer 471 bgs (67,379 lbs) (Hoegh Calm) Daarnhouwer 47 Be (37, Calrin) Padang, 9/24.
Padang, 9/24.
240 bgs (33,598 lbs) (Hoegh Calrn) Padang, 9/24.
Daarnhouwer 1,380 bgs (190,213 lbs) (Hoegh Calrn)

Daernhouwer 1,380 bgs (190,213 lbs) (Hoegh Calm)
Padang, 9/24.
Ludwig Mueller 160 bgs (22,399 lbs) (Hoegh Calm)
Padang, 9/24.
480 bgs (67,196 lbs) (Hoegh Calm) Padang, 9/24.
240 bgs (33,598 lbs) (Hoegh Calm) Padang, 9/24.
Dmt 250 bgs (33,520 lbs) (Hoegh Calm) Padang, 9/24.
Otto Gerdau 334 bgs (44,828 lbs) (Hoegh Calm)
Padang, 9/24.

Padang, 9/24.

Durkee Foods 250 bgs (33,170 lbs) (Hoegh Cairn) Padang, 9/24. Gol Spico 180 bgs (22,125 lbs) (Hoagh Cairn) Padang.

A A Sayla 167 bgs (22,560 lbs) (Hoogh Calm) Padang. Durkee Foods 1,000 bgs (134,921 lbs) (Hoegh Calm)

Louis Furth 337 bgs (55,946 lbs) (Hoegh Cairn) Padang. Mords J Golombeck 214 bgs (33,541 lbs) (Hoegh Carn)

Padeng, 9/24
510 bgs (67,262 bbs) (Hoegh Coirn) Padeng, 9/24
240 bgs (33,598 ibs) (Hoegh Coirn) Padeng, 9/24,
310 bgs (33,598 ibs) (Hoegh Coirn) Padeng, 9/24,
310 Gordau 221 bgs (33,556 ibs) (Hoegh Cairn) Padeng,

Ruo Fwdg 160 bys (22,399 lbs) (Hoogh Calm) Padang, Van De Vries Trdg 364 bgs (49,304 ibs) (Hoegh Caim)

Padang, 9/24. 185 bis (22,617 lbs) (Hoegh Cairn) Padang, 9/24. A A Sayis 143 bgs (22,361 lbs) (Hoegh Cairn) Padang,

Otto Gordau 240 bgs (33,598 bgs (33,598 lbs) (Hoegh Galm) Padang, 8/24.
Van De Vrios Trug 167 bgs (22,414 lbs) (Louis Maersk) Singapore, 9/25. A A Snyla 333 ctn (29,374 lbs) (Hoegh Calm) Padang.

Daarnhouwer 48 cm (2.551 lbs) (Hoegh Cairn) Padang, Louis Furth 125 ctn (5,648 lbs) (Hoogh Calrn) Padang. 9/24

2/24 Ludwig Mueller 143 ctn (18,267 lbs) (Hoegh Cairn) Padang, 9/24. Murris J Golontbock 419 ctn (34,738 lbs) (Hoegh Cairn) Padang, 9/24 117 bd (11,281 lbs) (Hoegh Cairn) Padang, 9/24. Otto Gerdau 200 ctn (11,508 lbs) (Hoegh Cairn)

Padong, 9/24.
William E Martin 200 ctn (20,692 lbs) (Hoegh Calm) Padang, 9/24. Louis Furth 125 ctn (5,787 lbs) (Hosgh Cairn) Padang,

9/24. CASTOR OIL Latina Trdg 1 bks (2,050,278 lbs) (Minerva) Fortiera, 9/28.

5 bks (9,920,790 lbs) (Stolt Vincita) Santos, 9/30.

1 bks (681,040 lbs) (Stolt Vincita) Santos, 9/30.

CAUSTIC SODA 1 bks (11,774,654 lbs) (Stolt Pride)

Antwerp, 9/29.
Froderick Henjes 1 bks (6,112,719 fbs) (Sakura Cob) L
Avers, 9/29.
SETYL BROMIDE Ameribrom 60 dms (29,101 lbs) (Tadeusz Kosciuszk) Rotterdem, 9/22. **LORACETAMIDE 195 Mix (19,315 lbs) (Koln Express)

Bremerhaven, 9/23. CHLORAMPHENICOL, LEVO Ico 20 dms (2,359 lbs) (Pi

JACOHAMITTENICOL, LEVO ICO 20 dins (2,359 lbs) (Pi-lar) Gnoa, 9/26. CHOLESTEROL, Selvo Bussari America 20 dins (1,323 lbs) (Louis Maersk) Kobe, 9/25. CHROMIUM OXIDE GREEN Mitsul 800 bgs (40,801 lbs)

(Neptune Jade) Kobe, 9/22.
CIMETIDINE Novopherm 32 dms (1,927 lbs) (American Ohio) Bermerhaven, 9/26.
CINNAMIC ALDEHYDE PERFUME GRADE Chemical Dynamics, 78 dms (37,487 lbs) (Britta Thien) Rotterdam, 9/29. CINNAMIN QUILLS Max Van Pels 160 bis (16,385 lbs)

(Hoegh Cairn) Colombo, 9/24. CITRAL Curto & Funk 1 dms (64 lbs) (Britta Thlen) Rotterdam, 9/29. CITRIC ACID Panalpina 2 bgs (112 ibs) (American Ohlo)

Bremaniaven, 9/26. 792 bgs (81,482 ibs) (Ever Greet) Antwarp, 9/24. CITRONELLA OIL 80 dms (34,921 ibs) (American Mains) Hong Kong, 9/23. RONELLOL Curto & Funk 10 dms (4,277 lbs) (Brita Thien) Rotterdam, 9/29.
CITRONELLYL ACETATE Curto & Funk 1 dme (439 lbs)

(Britta Thien) Rotterdam, 9/29. CITRUS OILS Baromailo 14 dms (5,511 lbs) (Zim Tokyo) Heifs, 9/21. CLOVE LEAF OIL Chem Fleuf 80 dms (38,977 lbs) (Ever

Govern) Singapore, 9/30. CLOVE OIL 1 dms (476 lbs) (Minerva) Rio D Janair, 9/18. CLOVES Prudent Trdg 100 bgs (11,089 bs) (Itabe) San-Mitsubsel Intl. 150 dms (32,077 lbs) (Louis Meersk)

Tokyo, 9/85.

Mitsubsel Intl. 1,164 dms (658,190 lbs) (Dart Atlantics)

Antwerp, 9/23.

Antwerp, 9/23.

Mitsubsel Intl. 1,164 dms (658,190 lbs) (Dart Atlantics)

GRAPE Oil: Status Imports Exports 10 ctn (317 lbs)

(American Apollo) Buence Aires, 9/28.

Continued on Page 5

CASEIN Adamba imports 2,400 bgs (264,552 lbs)
(Tadeusz Koscluszk) Bremerhaven, 9/22.
Erie Casein 400 bgs (44,092 lbs) (Tadeusz Koscluszk)
Bremerhaven, 9/22.
Norseiand Foods 1,560 bgs (85,980 lbs) (Sea Land
Vovager) Bremerhaven, 9/24. Voyager) Bremerhaven, 9/24. ASEINATE De Zaan 800 bgs (44,780 lbs) (Ever Greet)

ASSIA C F Sauer 221 bgs (33,556 lbs) (Hoegh Cairn)

Yerakini, 9/30.
CASTOR OIL DEHYDRATED, FATTY ACID 78 dms (33,704 lbs) (Itape) Santos, 9/24.
DEWHISKERED DILL SEED Morris J Golombeck 260 bgs (28,741 lbs) (Neptune Jade) Singaport, 9/22.
Ouality Spice 170 bgs (22,487 lbs) (Al Wattyah) Dubai, 9/25. 9/≼5. Monis J Golomback 200 bgs (26,455 lbs) (Hoegh Cairn) Bombay, 9/24.

DEXTRINE 1.800 bgs (89,086 lbs) (Ever Greet) Antr

DEXTROSE MONOHYDRATE Ca Da Candy 3,605 bgs (40,159 lbs) (Britta Thlen) Rolterdam, 9/29 DIACETYL 10 dms (4,409 lbs) (Koln Express) Rotterdam,

COCONUT OIL Finent Food Distr 6 ptt (18,369 lbs) (San

1 bks (1,102,310 lbs) (Stolt Energie) Cagayan D OR, 9/10.

can Ohio) Felixstowe, 9/28. 3chilf Food Products 3 60 bgs (47,906 lbs) (American

Ohioj Felixatowe, 9/26.

Ohioj Felixatowe, 9/26.

Transit Trdg 360 bgs (47,806 lbs) (American Ohio) Felixatowe, 9/26.

ZUMIN SEEDS Gel Spice 450 bgs (54,584 lbs) (Dragor Macrab Chibal 9/24

JANIN SEEDS Gel Spice 450 bgs (54,584 lbs) (Dragor Maersk) Dubal, 9/24. Indian Groceries & Spices 15 bgs (1,687 lbs) (Hoegh Caim) Bombay, 9/24. V A Cordovi 450 bgs (54,584 lbs) (Dragor Maersk) Dubal, 9/24.

9/23.
DIALLYL DIMETHYL AMMONIUM CHLORIDE Calgon 2
Ink (72,025 lbs) (Sea Land Voyager) Rotterdam,
9/24
DICHLOROSILANE 13 cyl (1,044 lbs)(Britia Thlen) Rotter-

dam, 9/29 DICYANDIAMIDE H.P. Lambert 810 bgs (40.770 libs) (Ever Greet) Hamburg, 9/24. DETHANOLAMINE 77 dms (39,553 lbs) (Dusseldorf Ex-

DIETHANOLAMINE 77 dms (39,553 lbs) (Dusseldorf Expres) Antwerp. 9/30.

DIETHYL OXALATE Acelochem 76 dms (35,132 lbs) (Atlantic Cartier) Liverpool. 9/22.

DIETHYL PHOSPHITE L ici Consultants 74 dms (37,522 lbs) (Tadeusz Noscluszk) Rotterdam, 9/22.

DILL Chase Menhattan Bank 160 bgs (8,818 lbs) (Thurmose) Alexandria. 9/30.

DILL SEED Globe Impay 300 bgs (28,741 lbs) (Neptune Jade) Singapore, 9/22.

DIMETHYL DISULFIDE DMDS 76 dms (36,861 lbs) (Ever Summit) Fos. 9/24

Summit) Fos. 9/24 DIMETHYL SULFOXIDE 2 bks (83,378 lbs) (Ever Summit

Fos, 9/24 DIMETHYLETHYLAMINE 124 dms (42,509 lbs) (Ever Summit) Fos, 9/24. DIMETHYLPYRAZOLE Lonza 5 dms (595 lbs) (Koin Ex-

DIMETHTEPTHAZULE LONZE 5 dms (595 lbs) (Koin Express) Bromerhaven, 9/23.

DIPENTAERYTHRITOL Hermann Ludfwig 1,280 bgs (70,000 lbs) (Ever Govern) Busan, 9/30.

DODECYL BROMIDE Ameribrom 20 dms (9,259 lbs) (Taadeusz Kosciuszk) Rotterdam, 9/22.

DUNDICUT CHILLIES Louis Futih 600 dms (33,334 lbs) (Neptune Jade) Singapore, 9/22.

EPHEDRINE HCL Mwm Chelcal 40 ctn (2,557 lbs) (American Maine) Hong Kong, 9/23.
EPSOM SALT Nuodex 400 bgs (41,389 lbs) (Dusseldorf Expres) Bramerhaven, 9/30.
EPSOM SALTS Qualchem 2,400 bgs (242,118 lbs) (Ever Grant) Hamburg 9/24.

Great) Hamburg, 9/24. ETHYL ALCOHOL Joseph E Searam 2 tnk (72.664 lbs)

(Sea Land Voyager) Rotterdam, 9/24.
ETHYL ALUMINUM DICHLORIDE Sherax Chamicals 1 tak (32,716 lbs) (Koln Express) Hamburg, 9/23.
ETHYL BROMOACETATE Amenbrom 43 dms (9,006 lbs) (Zim Tokyo) Haifa, 9/21. ETHYL BUTYRATE Bubai 6 dms (494 ibs) (Dart Atlantica

Felixstowe, 9/23. THYL ISOVALERATE 5 dms (2.161 lbs) (Dart Atlantica) Felixstowe, 9/23. ETHYLHEXANOL 2 bks (2,204,382 fbs) (Stephanie) Rot

terdam, 9/27. EUCALYPTUS OIL E L Scott 76 dms (36,369 lbs) (Pilar) Cadiz, 9/26.
*ATTY ACID Leyden Customs Expenditers 1,800 bgs

(90.983 lbs) (Ever Greet) Antwerp, 9/24. ENNEL SEEDS A A Sayla 220 bgs (220 bgs (24.251 lbs) (Thutmose) Alexandria, 9/30. Bharat Bazsar 15 bgs (893 lbs) (Hoegh Cairn) Bombey,

9/24.
Mirch 400 bgs (44,092 lbs) (Thutmose) Alexandria, 9/30.
Quality Spice 240 bgs (26,455 lbs) (Thutmose) Alexandria, 9/30.
Van De Vries Trdg 100 bgs (11,023 lbs) (Thutmose) Alexandria, 9/30.
K & M Qualom Brokers 1 bks (3,403,212 lbs) (Sandra Farber) Tarragons, 9/21.
FERROAMMONIUM CITRATE George Uhe 425 dms (48,195 lbs) (Ever Greet) Hamburg, 9/24.

FERROAMMONIUM CITRATE George Uhe 425 dras (48,195 lbs) (Ever Greet) Hamburg, 9/24. FISH Oil. Quality Foods Oils 64 pkg (36,420 lbs) (Britta Thien) Hamburg, 9/29. FLUOROCARBON POLYMER Nichtners 22 dras (2,619 lbs) (Louis Merrsk) Kobe, 9/25, 84 dras (3,799 lbs) (Tohbel Maru) Tokyo, 9/22. Viding See Freight 150 dras (0 lbs) (Tohbel Maru) Tokyo, 9/22.

Rotterdem, 9/29.
GERANIUM OIL George Uhe 8 dins (1,019 fbs) (Zim Keekung) Barcetons, 9/29.
GERANYL ACETATE Curto & Funk 13 dins (5,890 lbs)

GERANY: AGETATE Curlo & Funk 13 drne (5,890 lbs)
(Britta Thien) Rotterdam, 9/29.
GINGER PASTE Nishimoto Trdg 3 dn (46 lbs) (Ming Star)
Yokohama, 9/21.
GINGER ROOTS FRESH Ernax inti Trdg 1,100 ctn
(33,951 lbs) (American Apolio) Santos, 9/28.
GLUCONATE Berlex Laboratories 89 drns (6,451 lbs)
(Koh Express) Hamburg, 9/23.
GLYCERIN Trans World Shpg 1 don (47,399 lbs) (Britta
Thien) Hamburg, 9/29.
Kresteria Chambers, 9/29.

Thien) Hambing, 9/29.
Kaystorie Chemical 250 dms (38,146 lbs) (Minerva)
Santos, 9/18.
Mitsubshi Intl. 150 dms (32,077 lbs) (Louis Maersk)

GREEK OREGANO Quality Spice 551 bgs (11.023 lbs) (Zim Tokyo) Piraeus, 9/21. GUAR GUM A E Pellet 882 bgs (44,780 lbs) (Al Watiyah)

9/10.

1 bks (5.401.319 lbs) (Stolt Energie) iligan, 9/10.
(2,167,141 lbs) (SDtolt Energie) Roxas, 9/10.
(OPPER SULFATE Unimodal 96 dms (14,330 lbs) (Dart Atlantics) Felixatowe, 9/23.

CORIANDERS Louis Furth 360 bgs (47,973 lbs) (American Ohio) Falixatowa, 9/29. Celanese 1,440 bgs (80,000 lbs) (Al Wattyah) Dubai, 9/25.

Celanese Water Soluble Polym 2,160 bgs (120,001 lbs) (Al Watiyah) Dubai, 9/25. Harris Brown 800 bgs (40,565 lbs) (Hoegh Cairn) Bombay, 9/24,

Premcem Gums 800 bgs (40,230 lbs) (Al Wattyah)
Dubal, 9/25. Tic Guma 837 bgs (42,496 lbs) (Al Wattyah) Dubai. Tragacanth Imports 800 bgs (40,741 lbs) (Pilar) Genoa,

Colony Imports & Exports 800 bgs (40,618 lbs) (Al Waltysh) Dubal, 9/25.

GUM ARABIC Colloides Naturels 360 bgs (40,477 lbs)

GUM ARABIC Colloides Naturels 360 bgs (40,477 ibs) (Sea Land Voyager) Roterdam, 9/24.
Roberto Bucci 2,000 bgs (223,768 lbs) (Strathconon) Rotterdam, 9/25.
GUM KARAYA Block Drug 470 bgs (90,146 lbs) (Al Wattyah) Dubai, 9/25.
Colony imports & Exports 198 bgs (36,230 lbs) (Al Wattyah) Dubai, 9/25.
GUM ROSIN Pdm 69 dms (39,246 lbs) (Minerva) Santos, 9/18. Dubai, 9/24.

ANOACRYLATE ADHESIVE Kuahne & Nagel 413 pkg
(12,414 lbs) (Neptune Jade) Yokohama, 9/22.

YANURIC ACID Atlas intermodal Transport 800 dms
(84,000 lbs) (Ming Star) Keelung, 8/21.

YANURIC CHLORIDE Lonza 640 dms (80,142 lbs) (Koin Express) Rotterdam, 9/23.

Express) Rotterdam, 9/23.

D LIMONENE Polarome Mig 125 pkg (51,257 lbs) (American Apollo) Santos, 9/26

DEADBURNT MAGNESITE 1 bks (11,574,255 lbs) (Clary) 9/18. GUM TURPENTINE Pim 2 con (79, 277 lbs) (Bacol Santos)

Santos, 9/24. HEPTANE 1 bks (1,683,408 ibs) (Sandra Farber) Tarrag-

HEYTANE 1 bks (1.683,408 lbs) (Sandra Farber) Tarragona, 9/21.

HEXYLENE GLYCOL /cc Ind 78 dms (34.738 lbs) (Minerva) Santos, 9/18.

HIDE GLUE Transatientic by Products 400 bgs (39,860 lbs) (American Apollo) Rio Grd Do S, 9/26.

HYDROQUINONE TECHNICAL Mitsui 200 dms (21.781 lbs) (Ming Star) Kobe, 9/21.

HYDROXYCITRONELLAL Curto & Funk 10 dms (4.497 lbs) (Brilla Thien) Rotterdam, 9/29.

INDIAN CELERY SEED Altan Brothers 255 bgs (33,731 ibs) (Al Waliyah) Dubal, 9/25.
McCormick 187 bgs (24,324 ibs) (Al Waliyah) Dubal, 9/25.

Morris J Golombeck 255 bgs (33,731 lbs) (Al attiyah) Attari Brothers 425 bgs (56,217 ibs) (Al Wattyah) Dubai

9/25.
McCormick 250 bgs (33,069 lbs) (Al Wattyah) Dubal, 9/25.
INDIAN DILL SEEDS Van De Vries Trdg 170 bgs (22,112 lbs) (Al Wattyah) Dubal, 9/25.
INDIAN GUM KARAYA Celanose 320 bgs (36,261 lbs) (Al Wattyah) Dubal, 9/25.

INDIAN GUM KARAYA Celanose 320 bgs (36,261 lbs) (Al Wattyan) Dubal, 9/25.
Colony Imports & Exports 212 bgs (38,232 lbs) (Al Wattyah) Dubal, 9/25.
IRON BLUE PIGMENT Dainichiselka Color & Chambe 1,200 bgs (62, 152 lbs) (Ming Star) Yokohama, 9/21
IRON OXIDE Orgo Theimit 34 dms (38,752 lbs) (Ever Greet) Antworp, 9/24
IRON SULFATE 5 bxs (236 lbs) (Dussoldorf Express) Hamburg, 9/30

burg, 9/30 ISOPHTHALIC ACID Addo Chemical 700 bgs (39,573 lbs) (Ever Summit) Genes, 9/24. Asiland Chemical 20 bbg (40,785 lbs) (Ever Summit

Ashland Chainkai 20 bbg (40,785 bbs) (Ever Summin Leghorn, 9/24 ISOPROPANYL PESTICIDE LIQUID Heino Johnan 17 dms (0 bbs) (American Maine) Jeddah, 9/23. ISOPROPYL ALCOHOL 1 bbs (1,283,401 bbs) (Sandra

SOPROPYL ALCOHOL 7 das (1.122.00)
Farbert 7 arragons, 9/21.
1 bks (2,643.937 lbs) (Stoll Vincita) Campana, 9/30.
ISOTRIDECYL ALCOHOL 1 bks (1.102.258 lbs) (Stoll Vincita) Santos, 9/30. AMAICA PIMENTO LEAF OIL 5 pkg (2,680 lbs) (San

JAMAICA PIMENTO LEAF OIL D PNG (2,000 IDS) (OBIT Padro) Haina, 9/28. L-EPHEDRINE Ganes Chemicals 40 ctn (2,557 Ibs) (Amer-Ican Utah) Hong Kong. 9/29. LACTIC ACID G F Expeditors 70 dms (39,043 Ibs) (Mi-LACTIC ACID G F Expeditors 70 dms (39,043 lbs) (Minerva) Rio D Janeir, 9/18.

LACTIC CASEIN New Zealand Milk Products 2,400 bgs (134,392 lbs) (Columbus Australi) Wellington, 9/19.

LAKE RED C AM INE B GRADE Universal Transcondinental 400 bgs (23,633 lbs) (Ming Star) Kobe, 9/21.

LAUREL LEAVES John H Eiton 15 bis (2,313 lbs) (Pilar) Valancia 9/28.

Valencia, 9/26. LEAD ACETATE J M Rodgers 320 dms (36,801 lbs (Ming Star) Kobe, 9/21. LEAD CARBONATE PIGMENT Gebr Hirdgs 38 coi (2,507

LEAD CARBONATE PIGMENT Gebr Hirdgs 38 col (2,507 lbs) (Ever Greet) Hamburg, 9/24.
LEMON OiL Ungerer 10 dms (4,101 lbs) (American Apolio) Santos, 9/26.
LEMONGRASS OiL Fritzache Dodge & Olcott 25 dms (11,011 lbs) (Saint Loule) Heina, 9/19.
LIDOCAINE HCL Astra Westobor 38 dms (3,726 lbs) (Atlantic Cartler) Gothenburg, 9/22.
LILESTRALIS Curto & Funk 20 dms (9,215 lbs) (Britta Thien) Hotterdam, 9/29.
LIME OIL DISTILLED 50 dms (22,419 lbs) (Polwind) Vera Cruz, 9/22.

Cruz, 9/22, LINALOOL 160 dms (67,745 lbs) (Ming Star) Yokohama,

MAGNESIUM BROMIDE & HYDRATE PURE Crescent Chemicals 1 bx (29 lbe) (Dusseldorf Expres) Hamburg, 9/30.

MAGNESIUM OXIDE GRANULAR Roussel Pharmacquilcal Produ 662 dms (76.610 lbs) (Ming Star) Kobe, 9/21.

MAGNESIUM SULFATE ANHYDROUS Potash Import & Chemical 800 bgs (80,888 lbs) (Koin Express) Bromerhaven, 9/23.

MALAYSIAN BLACK PEPPER East West Init Trdg 210 bgs (33,068 lbs) (Ever Govern) Singapore, 9/30.

Lidwig Mueler 660 bgs (86,184 lbs) (Ever Govern) Singapora, 9/30.

MALEIC ANHYDRIDE Fleet Sing Lines 700 bgs (39,187 lbs) (Hanjin Long Beach) Busan, 9/26.

1,400 bis (78,334 bbs) (Hanjin Long Beach) Busan, 9/26.

1,400 bis (78,334 bbs) (Hanjin Long Beach) Busan, 9/26.

MARJORIAM A A Sayia 240 bgs (19,228 ibs) (Thutmose) Alexandria, 9/30.

Chase Manhattan Bank 1,125 bgs (49,604 bbs) (Thutmose) Alexandria, 9/30.

Ludwig Mueller 200 bghs (11,023 ibs) (Thutmose) Alexandria, 9/30.

Minch 500 bgs (22,046 ibs) (Thutmose) Alexandria, 9/30.

Minch 500 bgs (22,046 lbs) (Thutmose) Alexandria, By 30.

MELAMINE MOULDING COMPOUND 820 bgs (45,194 lbs) (Zim Keelung) Halfa, 9/29.

820 bgs (45,194 lbs) (Zim Tokyo) Halfa, 9/21.

MENTHOL CRYSTALS 8arcom 20 dms (2,405 lbs) (American Apolio) Santos, 9/28.

MENTHOL CRYSTHALS BRASWEY BRAND American Shog 100 dms (11,019 lbs) (Bents Catarina) Peranagus, 9/24.

METHOXYCITRONELLAL Curto & Punk 1 dms (428 lbs) (Brits Thien) Rottendam, 9/29.

Continued on Page 56

CHEMICAL PRICES

WEEK ENDING OCTOBER 24, 1986

This chemical prices section contains spot quotations and/or list prices of suppliers of chemicals and related materials on a New York or other indicated basis. The listings are based on price information obtained from suppliers. Note that posted prices do not necessarily represent levels at which transactions actually may have occurred. They do not represent bid and asked prices, nor a range of prices over the week. Price ranges may represent quotations of different suppliers as well as differences in quantity, quality and location. All matters under this heading are fully covered by

An index of weekly chemical market rep

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			Alu	100-1 minum
Ables alba, dmskilo Acetaldehydo, 98%, tanks, frt. alid. ib.	25.00 .37	27.00		w minum
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Acetoscet-o-toluidide, dms., t.l., dwdb.	1.58	_	Ale	7) Minum
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Acetone, tanks, divd. E	.26	- '		miņum Miņum
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Acetophenetidin (see Phenacetin). Acetophenona, tech., tanks, i.o.b.			Ak	amirium k
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sia	.97	_		lq., tan
works. Ib. Acetylselcylic acid, USP (see Aspirin). Acetylcributyl citrate, bulk, 1.o.b.		_	ı	iron-fre t
WCKM	1.28	-	یہ آ	ilq., tan Uminus
Acetyltriethyl citrate, bulk, f.o.b. worksb. Acrolein, isch., tanks, worksb.	2.06	_	Aı	πinoac
Acrolein, iech., lanks, works ib. Acrylanide, solid, Li. works ib.	. 82 1. 0 0	-		tech., i
soln., 160% basis tanks, works 2. Acrylic acid. glacial, reg., tanks.	.74	.77	1	Aminol
civelib. tech., tanks, frt. akdb.	.87	-	١.	Amino
ACTYRONITHE, LAINKS, WORKS,	.60 .391⁄2	.451/2	١^	minoet
Acrylonitrie-butadiene-styrene reein, high-impact, nat., t.l., dmg.,			N	-Amino
divd	1.09 1.05	1.12 1.08	2	-Amin
low-impact, nat., same basis ib. Adipic acid, resin grade, bulk, hopper	.9B	1.01	۱.	
CATE, ITT. EQUARD	.57 .59	-		
bgs., LL, c.L fri. equald	9.60	9.85	11	1
Alcohol, syn. C-8 to C-10, tanks, f.o.b.		9.00	Н	
works	.38 . <u>57</u>	.59	П	
G-16 to G-16, tanks, divid	.57 .60	Ξ	11	_
Aldehyde, C-6, drns	4.10 1.95	5.70	H	TH
C-7, drns. Ib. C-8, drns. Ib. C-10 drns. Ib.	4.30 4.30	6.30 5.35	П	a/si
C-10 dms. b. Algin (see Sodium alginate.) Alkali bue, dry, flushed, 110-ib. dms.	1144	0.00	Н	eld am
divd	3.72	3.83	Ų	AM
Rockies,			11	an
Alispica Gualemalan / Honduran, ogs	.87	_	П	AO
Jameican, bos	1.05	-	Н	a.p
Allyl bromids, 500-kilo drus, 2,000 lbs.	.90	-		Ì
or more, worksib. Allyl caproste, 25-lb. cns	5.50 3.90	4,50	11	epi Att
Allyl chloride, tanks, f.o.b. worksb. Allyl isothiocyanate, botsb.	.65	_	H	
ARTIONO OII, Britt-, Ditter (see Benzaldahy	6.40 de.)	6.90	H	ļ '
Almond oil, nat. bitter, NF f.f.p.a. boxs	3.50	3.60	1	b/t Be
sweet	1.24 2.00	1.50		bb
powd.,csib. Curacso,kgsib.	2.25 2.60	2.76	ļ	b.(
powd., kgs	3.00 8.00	8.70	j	bi bo
Alum, arunonium, tech. gran., bgs., c.i., t.i., works 100 lb.	35.00	3.10	ļ	1
FCC powd., fiber dms., works100ibs.	56.00	Ξ	1	
Alum, potassium, tech. gran. bgs., c.l., t.l., works 100 bs.	35.00	-		bi
FCC powd. Riber drins., works . 100 lbs.	55.00	. •	1	-

a may represent que		AII	bgs.,c.l	-
quantity, quality and loo	CHITOTI	. All	Ammonium bichromate, photo-litho	
y copyright.			grade, gran. 100-lb. dms., l.t.l. works	_
,		l,	Ammonium bifluoride, bgs., t.i.,	
		_	worksb70	-
ports is on the back co	YOL.	1	Ammonium bromide, dom. NF., gran.,	
			dms., c.l., t.l., f.c.b. works . B. 1.31	-
			Ammonium chioride, white, tech.,	
			fine gran., bgs., c.l., works100bs. 18.00	_
, activated, gran., 100-b. bgs.,			USP, gran., drns	.53
	21.00	-	Ammonium citrate, dibasic, 250-lb.	
	4.00	-	drns. f.o.b. works lb. 2.79	-
Hb. bgs., same besis ton 35 ted, white, bulk, same ba-	00.00	-	Ammonium dimolybdate, approx.	
sia ton 19	00.00	-	85%, 24,000 bs. or more .lb. 5.48	-
	4.00	-	Ammonium fluoborate, tech., dms., c.l., t.l., works, frt. equald lb. 1.79	_
m acetate, basic, dms., i.c.i.,			Ammonkum haptamolyodate, cryst.,	_
	3.25	-	dms., 24,000 lbs. f.o.b.	
m chloride, anhyd., soln., 500-			works	-
600 lb. dms., c.L, t.L, works, frt. equaldib.	.63	_	Ammontum lauryl sulfate, tanks, f.o.b.	
seme basis ib.	.48	-	works	.32
bulk bins, same basis 1b.	.52	-	Ammonium lignin, sulfonate, bulk, f.o.b. Hogulam, Ore ton 72.00	_
m chloride, comi., soin., 32°	- 00		f.o.b. Hoquism, Ore ton 72.00 Ammonium nitrate, dom., ferti@zer	-
	5.00	-	grade, 33.5% N, bulk, S.E.	
	2.00 20.00	_] divdton 130.00 13	35.00
m termate, dibesio, lio, 8%		_	Ammonium oxalate, tech., fine. gran.	
Al ₂ O ₂ t.l., works lb.	.55	-	300-lb. dms., t.l., f.o.b.	1.00
m hydrate (6ee Alumina, hydrated)			worksb. 1.42 Ammonium pentaborate gran. bgs.,	1.68
m hydroxide, dried, gel, NF,	0.75	0.50	c.l., works	_
76-lb. dms., c.L, t.l., works. lb. m metal, 991/24 or more, 50-lb.	2.76	3.50	Ammonium pentaborate powder 20c.	
pigs., 30,000-lb. lots, frt.			per lb. higher.	
did	.78	-	Ammonium persulfate, 225-ib. dms,	
m oxide amorphous (see Alumina, (celcined)		24,000 lbs. or more, f.o.b.	
um paste, leating grade,			works	_
std.,lining, 2,400 lb. lots,	1.40		Ammonium phosphate (see DI- and monoammoniu	m phos-
divdlb. ,extra-fina, same bealslb.	1.99	2.14	phates).	p
m phenoisulfonate, purif., 100-	1.00		Ammonium silicoffuoride, dms. c.l., t.l.,	
kifo dinis., t.lkilo	6.4B	-	works	-
m powder, leafing grade, std. lining, 2,400 lb. lols, divd lb.	0.47		Ammonium sulfate, ig. gran., bulk, c.i., workston 80.00	00 00
fine, ining, same basis ib.	3.17 4.04	-	ald, comi., bulk, f.o.b. works ton 60.00	90.00 70.00
m stearate, bgs., c.1 ib.	1.25	1.37		20.00
m suifete, comil, ard., 100 lb.		110.	Ammonlum suifide, ilg., 40-44% tenks.	
Dgs., o.l., works, int. equald.,			100% basis, frt. equald (on. 460.00	
basis 17% Al ₂ O ₃ East and Gulf	0E 00		Ammonium sulfocyanide, tech. (see Ammonium thioc	yanate).
	05.00 20.80	-	Ammonlum thicoyanate, tech., cryst., bgs., c.i., worksb. 1.02	_
MKS. N.E. same basis ton 1	45.00	_	tech soin., 50%, tanks, tri.	-
188. Cry. Dols., C.1. Same		-	equald.,b. ,93	_
D888	00.00		Ammonium thiosulfate, photographic,	
8NK8. \$8MB Dasis lon 2	25.00	265.00	60%, tanks, 1.0.b, works lb	-
um sulfeta, USP, gran., dms. lb. ucelic acid., USP, dms., 20,000 lbs., f.o.b. works lb.	-	.337	Ammonium zirconyi carbonate, eoin.,	
108., f.o.b. works	2.12	_	Amyl acetate, primary mixed isomers,	_
, w., same basis	1.88	_	tanks, divd	_
obenzoic acid. 1.000 kilos or			Amyl alcohol, primary mixed isomers,	_
more, drns., f.o.b. works . kilo	9 .60	10.10	tanks, frt. alkl	_
o-4-chiorophenol dry and grd., 14,000 lbs. or more, irt. alid. ib.	5.79	_	Amyl chriamic aidehyde, dms ib. 2.35	2.50
BUTYI OTHERIOLOMINA, TENKE, Irt.	U./ 0	-	Amyris off, dms	1.03
COMPCT.	1.331/2	_	Amyris of, dms	-
noethyl piperazine, tanke, f.o.b., frt. collect			1 USP, ams	4.60
m. collectb.	1.05	-	I Angrica root oil borg	
no-2-ethyl-1,3-propanediol dms., t.l. f.o.b. works ib.	1.82		Aniline, tanks, f.o.b	.351/2
	1,02	~	Aniseoil, drnskito 8.90	-
			والمساول ومناقل مبرمناها فبالمراجع فالمساول	

المستند الارتفاد المستحد المستحد المستحد					_
2-Amino-2-methyl-1-propanol, 95%,			Anise seed, Chineso, bgs lb. Spanish, bgs lb.	1.30	_
drag., Q.L., t.L., f.Q.D., WORKS . ID.	.95 .89	_ 1	Turkish Das	1.08 1.00	1.1
tanks, f.o.b. worksib. o-Aminophenol, dms., f.o.b. Charlotte,	.00		Anisic aidonydo, chs., dms	4.80	54
1 N.C	3.95	-	o-Aniskine, imp., dms., divd b. p-Aniskine, imp., cast solid, dms.,	2.27	QA.
p-Aminophenol, t.l. dms., f.o.b. Rateigh, N.C kilo	7.15	- I	WORKSh	1.90	
a Aminosaliculio acid. USP. 50-XIIO			fiakes, same basis ib. Anthranilic acid, purif., 99% min., dms.,	2.28	:
I MMR. LL	18.50	-	UL. 111. ANKI	1 70	
Ammonia, anhyd., fertilizer, wholesale, tanka, divd. Midwest termi-		į	Antimony fluoborate, Eq. conc., 175-b.	1.70	-
reig 100		170.00	dms., t.l., works	3.02	-
tenkeans, f.c.h. Gulf Cosst 100	80.00	B5.00	Antimony oxide, high-tint, bgs., c.l., frt.	1.35	1,3
aqueous, 29.4% NH ₂ , anhyd. basis, tanks, frt. equald. E. of Rock-		Į.	alid. E. of Rockiesb. Antimony trichloride, anhyd., solid,	1.35	ų,
log		315.00	dms., t.l. works b	3.60	
Ammoniscal Equor (see Ammonia, aqueot Ammoniac sai, galvanizing grade, bgs.,	16).		Apomorphino hydrochloride, NF, bola.,		•
A I for how works 100008	28.60		Apricot kernel oil, dms lb.	15.00 2.05	-
Ammonium sal. white (see Ammonium chic Ammonium biborate, gran., dms., c.i.	oride comi.	,	Arabic gum, powd., bbis	1.85	21
works	.90	-	spray driedb. USP gradeb.	2.00 6.75	2.
Ammonium biborate powder 150. Per Ro.	. higher.		Aromatic petroleum solvents (888	Solvent.	9.5 Např
Ammonium bicarbonate, 300-lb. fib. dms., c.l., works 100 lbs.	26.00	_	petroleum, aromatic). Arsenic, crude (see Arsenicus trioxide).		
hos.cl	25.00	-	Arylid, red (see Napthol, arylid red).		
Ammonium bichromate, photo-litho grade, gran. 100-lb. dms., l.t.l.			Arsenious trioxide, 99%, bulk, c.i., f.o.b. warehouseib.	40	
works	2.00	-	l Asbestine (see Telo, filorous).	.42	
Ammonium bifluoride, bga., t. <u>l</u> .,	70		Ascorbic acid, USP, 100 kilos,		
works	.70	-	divdkilo. Ash, black (see Barium aulfide).	9.00	10:
dms., c.l., t.l., l.c.b. works . B.	1.31	-	Asphalt glisonite, (see Gilsonite).		
Ammontum chloride, white, tech.,			Asphalt petroleum cutback, tanks, E. Coast	.86	
fine gran., bgs., c.l., works1006s.	18.00	-	emulsion, tanks, tankwagons, E.	.00	•
USP. gran drns	.40	.53	Coastgal. steam-refined, 40-300 penetration,	.68	
Ammonium citrate, dibasic, 250-lb. dms.f.o.b. workslb.	2.79	_	tanks, tankwagon lon	170.00	
Ammonium dimolybdate, approx.			eteep roofing grade, bulk tankwag-		
85%, 24,000 bs. or more . lb.	5.48	-	Aspirin, USP, cryst., powd., 250-	175.00	•
Ammonium fluoborate, tech., dms., c.i., t.i., works, frt. equald lb.	1.79	-	ID.dms., c.l., 1.0.b	1.95	
Ammonium haptamolybdata, cryst.,			10% starch granulation, white, 250- lb. dm, c.l., f.o.b lb.	1.97	
dms., 24,000 lbs. f.o.b. workslb.	5.57	_	16% starch granulation, white, same		
Ammontum lauryi sulfate, tanks, f.o.b.			basis	2.80 / Overeins	Maria
worksb. Ammonium lignin, sulfonate, bulk,	.29	.32	from N.Y., Phila., Midland, Mi		
f.o.b. Hogulam, Ore ton	72.00	-	Louis. Atropine sulfate, USP, bots oz.	10.00	11.
Ammonium nitrate, dom., fertilizer			Avocado oil, dms	4.00	4
grade, 33.5% N, bulk, S.E. divdton	130.00	135.00	Azelaic acid, tech., 50-lb. bgs., t.l., c.l.,	4.00	
Ammonium oxalate, tech., fine. gran.			divdb. Azo oranga, bbis., divdib.	1.23 4.60	
300-lb. dms., t.l., f.o.b. workslb.	1.42	1.68	Azo yellow, 10 G, bgs., divd. E. of		
Ammonium pentaborate gran. bgs.,	1.76	1.00	Rockios	4.40	
c.l., works lb.	.76	-	sisb.	2.45	
Ammonium pentaborate powder 20c. per lb. higher.					
Ammonium persulfate, 225-ib. dms.			l 200 0		
24,000 lbs. or more, f.o.b. workslb.	.58	_			
55-lb. bgs., same basis lb.	.561/2	-			
Ammonium phosphate (see DI- and m	OUCEUNO	nium pho s -			
phates). Ammonium silicofluoride, dms. c.l., t.l.,					
workslb.	.30%	-	Bacitracin, USP, non-sterile, one billion		_
Ammonium sulfate, ig. gran., bulk, c.i., workston	80.00	90.00	units or more million units	6.30	(
atd., comf., bulk, f.o.b. works ton	60.00	70.00	Barbital, NF, 50-kilo dms., divd kilo Barbital-sodium, NF, 50-kilo dms.	22.50	
tech. bga., c.l., t.l., works ton	108.00	120.00	divdklio	23.00	
Ammonum sulfide, ilq., 40-44% tanks, 100% basis, irt. equald (on.	480.00	_	Berite, dry-grd., Southern, off-color,	.09	
Ammonium sulfocyanida, tech. (see Amr		ocyanate).	coarse, bgs., c.l., f.o.b. mines lb. water-grd., white, bgs., c.l.,	-	
Ammonium thiocyanate, tech., cryst., bgs., c.i., worksib.	1.00		f.o.b. works	.18	
tech soin., 50%, tanks, fri.	1.02	-	unbleached, extra-fine, pigment grade, c.l., f.o.b. works ton	180.00	
equaid.,ib.	.93	-	Barlum carbonate, precip., bulk, c.l.,		
Ammonium thiosulfate, photographic, 60%, tanks, f.o.b, works ib.	.13	_	works, frt. equald jb.	.25 .267	h
Ammonium zirconyi carbonate, soin.,		_	bgs., same basis lb. photo grado, bgs., same basis ton	510.00	_
Amul aratata, primary miyeri termara	.72	-	Barium chiorato, 100-lb. dms., 1-10	1.04	
Amyl acetate, primary mixed isomere, tanks, divd	.57	_	dm. lots, works	1.04	
Amyl alcohol, orimary mixed isomers.			works	470.00	
tanks, frt. alid	.46V 2.35	2.50	anhyd, drums c.l., same besis, ton	590.00	
p-tert-Amylphenol, bulk, worksib	.91	1.03	Bartum chloride, puril., cyrat. 400-lb. dms., worksb.	3.76	
Amyris of, dmsib.	11.00	-	Barlum monchydraig, 55-lb, 008., 0.4.	48.00	
Anethole, tech., dms ktlo USP, dms	10.20 3.85	4.60	t.l. I.o.b. works 100 lbs. octahydrate, cryst., bgs., same	-	
I Anderca root oil, bots	700.00	-	DARIA	33.00	
Aniline, tanks, f.o.b	.33 8.90	.351/2	Barken nitrate, 100-lb. bgs., i.l., works100 lbs.	32.60	
			Trong		
				,	_

ABBREVIATIONS

	Barium oxide, grd., dms., c.l., dlvd	31.25		
i I	tote bins, same besis, 100 lbs. Barium peroxide, 700-lb. dms., c.l., t.i.,	30.00	Ξ	
į	works	.30	-	
:	destID.	1.05 anc fixe).	-	
•	Barium sulfate, USP, X-ray diagnosis grade, powd., 25 kilo bgs., 10,000 kilo lots	.581	5 _	
	Barium suifide (black ash), dms., c.l.,	460.00	• -	
:	Basi Egyptian	.69 .88 55.00	.92 .90	
٠.	Basiloii, Comores	62.00 52.00	- 70.75	
į	Baudie, calcined, refractory grade, 87%-88% Al ₂ O ₃ , Baltimore &	02.00	70.70	
	Mobilemetric-tan Revall NF, 60-55%, drnslb.	229.28 11.00	_	
}	Bayberry wax, bgsb. Beeswax, reid., bleached white,	2.70	3.00	
l	bricks, 100-lb. ctns lb. white, slabs, 100-lb. ctns lb.	3.10 3.05 3.00	3.20 3.10	
!	yellow, bricks, 100-lb. otns lb. yellow, slabs, 100-lb. ctns lb. Bentonits, dom., c.l. bags, f.o.b.	2.95	3.10 3.05	-
İ	works	43.50 1.25	_	-
-	tech.,dms., c.l., t.l.,	.73	.83	-
į	the Rockles. Benzene, Indust. or nitration, barges, f.o. Baton Rouge, Le	.b. .85		-
1	Baylown, Tex gal. Beaumont, Tex gal.	.85 .85	Ξ	
Ì	Catletisburg, Ky gal. Chicago district gal.	.65 .85	_	
· !	Chocolate Bayou, Texgal. Clairton, Pagal.	.85 .85	_	-
	Corpus Christi, Tex gal. Deer Park, Tex gal. Houston district, spot gal.	.85 .85	-	
	Uma, Onto gal, Wood River, III	.83 .85 .85	.84 - -	1
	Benzidne orange, powd., bos., dlvd. lb.	er (see Lir 4.90	ndane). 8.70	1
	Iq., containers, divd Ib. Benzidne yellow, AAA, bgs., divd. , ib.	3.36 5.80	3.89 6.05	
•	AAOA, bgs., dlvd. ib. AAOT, bgs., dlvd. ib. Berzocaine, USP, dms., 1,000 kg. lots.	7.35 5.95	7.40 6.20	ı
,	f.o.b.,works	10.00 12.50	11.50	
	works	.55	- .58	
	uspayer, ams., ton fote same ba-	1.73	1.75	
ì	Benzoingum, Sumatra, cs	1.80	-	1
•	MF., 1,000 kilos or more, f.o.b. kg. tech, 1,000 kilos or more, f.ob	3.50 7.45	3.60	
	tech, 1,000 kilos or more, fob works	4.35 obenzotka	_ BZVİ disul.	
	Benzotriazole, flake, drna 1 000 lbs			
	or more, f.o.b. works lb. govd , dms., 1,000 lbs. or more, same basis lb.	6.10	-	١,
	MOTE Same basis	6.20 9.90	-	
	Bound	.87	-	
	tanks, frt. equald to. Benzoyl chloride drins., c.l., works ib. tanks, frt. equald ib. Benzoyl percepte ib.	.80 .57	_ .59	
	10 DOOD ME STORE GEAR.	.7412	.75	
:	paste, 50% and 65% formulations	2.35	6.98	n
	dms. pais. fri. equald ib. Benzyl acetale, dns	1.71 1.20	1.95 2.60	•
	lanka same bosie	1.26	1.85	И
	We will divide a policy DS.	1.37 1.40	1.43	I
	tech grade, t.L., dris., same basis ib.	1.34 1.32	-	C
	Benzyl benzoete, drus. 10.	1.26 1.05	2.26	C
	Benzyl Chromosoft	.59 .54	-	
ì		8.50	9.96	ĺ
ŀ	6-fart Report	2.30 0.50	-	C
	Benzyl propionale, dms. ib. 1.	1-cresol). 5.50 3.35	-	
	Bensmot of Bensmot of Baroline, Che., bots. Pa	2.90	3.25 3.25	CE
	Both Crest 500 hithoic acid (see b-Organo	4.00 thoic acid)	-	CE
	Burguth nitrate, purif. cryst 100	5.50	-	
		0.00	-]	Ca
ı.	autocarbonate (ISD modific	7.20	-	Ca
			5.50	-
	dins., works	2.50	- 1	Ca
	WANTE PRODUCT	.45 .00	_	. [
١	Bendengl-A. epoxy grade		3.45	n
L	projectionate gravia	.67	-	Cak
I	thus oil Braz ageib.	.71 .20 .75	-	Ca
	stancel, steamed design ib. 6.	.26 g	1.05 1.90	Caf
	WITH CL INVENTION PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERT			, in
	brit lech and precip (see Calcium charact		nnateti	Cal
	phosphate, defluorinated of lime (se brighted by the phosphate). In the phosphate of the phosphate of lime (se carcium phosphate). In the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the phosphate of the ph	00.	~" .	Cak Cak Cak
	lon 602.	00	- ˈ ˌ l.	

	Borax, tech., gran., decahydrate,		_	-
	bulk, c.l., works ton	237.00 192.00	-	
	bgs., c.l., works ton	265.00 220.00	-	
	Borlc acid, tech., gran., 99.9%, bgs.,		-	-
	Baron trichloride, CP, 1.800-lb, cuts	614.00 569.00	Ξ	
ı	Boron trifluoride, 60-lb. cyls., t.l., f.o.b.	3.80	-	
1	Boron trifluoride, etherate 500 lb	4.03 3.47	-	-
	phenolate, 500-lb. dms., t.i., same	2.35	-	
	bulk, 45,000-lb, min, works	1.65 .87 .33	.3414	
	Bromine divd., prices for dms. and bulk si	.75 Upped W.	of Rockies	,
	higher for 30,000-lb. min. and higher for 15,000-lb. min. Bromockforomethane, dms., c.i., f.o.b.	4c. to 5	vacper-it Vacper-it	3.
	Butadiene, tanks, f.o.b.	1.12 .121⁄2	.13	ĺ
	1,4-Butanediol, tanks, f.o.b., frt. equald	.80	- 13	1
	n-Butvi acetete, syn tenke fot sild is	.88 .26 .521⁄2	28	-
	n-Butyl alcohol, avn., ferment, tenke	.69	=	İ
	frt. elid	.34 .365	:	
	Eib. Butyl aldehyde (see Butyraldehyde) Butyl benzyl phthalate, tanks, frt.	.70	-	1
	Butyl chloride tanks works	.59 .99	1.00	1.
	Butyl cyclohexyl phthalate, tanks, divd	.74	-	1
1	divd	1.85 .35	-	١,
	n-Butyl lactate, tanks, f.o.b. works, ib. n-Butyllithlum, 15% soln., 1,000-lb. lots or more, cyls., 100%	1.58	-	- [,
	tanks, 3,000-ib. min., 100% basis	15.46	-	1
1	Butyl methacrylate, lanks, frt. equald	14.75	-	ľ
	Butyl octyl phthalate, tanks, divd. E. Ib. Butyl cleate, dist., dms., c.i. Ib	.88 .40	- 42	
	p-tert-Butylphenol tenke works in	.70 .60 .70	.82 .75	,
l	Butyl phthalate (see Dibutyl phthalate). Butyl stearate cosmelic, dms., 77 dms or more.		-	
	Butyl stearate tech., t.i	91 92 .60	.97 - .62	1
	tanks	EE	.58	6
	tanks, same hasis	1.31 1.17	-	
	Butylated hydroxyanisote, food grade dms., divd ib. Butylated hydroxytoluene, food, feed	8.80	8.85	ľ
ı	grades, c.l., t.l., bgs., divd., ib. tech., bgs., c.l., t.l., divd., ib. 1,3-Butylene glycol, tenks, divd ib.	1.24 1.24	1.30 1.30	c
П	Butyraidenydo, tanks, divd b.	72 29½ 44½	.38	1
П	Butyric ether (see Ethyl butyrate). Butyrolactone tanks, i.o.b. plantfb. n-Butyronitris, dms., c.l., dlvdlb.	1.20 .93	-	C
,	tanks, divd	.54		1
L	lacktriangle			1
П				C₽
				Ca
1	Cadmium chloride, purif. cryst., 100- lb. dms., t.l., workslb. Cadmium, CP, red, dark shade, bbis.,	3.73	_	Ca Ca
	100-lb. lots, frt. alld., E. of Rockles lb. 11	.33 1	6.35	Ca
	medium shade, bbis., seme basis.ib. 10 medium-light shade, bbis., same ba-		2.08 5.20	Car
٥	als	.26 1	4.50	8
c	admium fluoborate, liq. conc., dms.,		7.07	Сал
	medium-light shade, bbis., same ba-	.27 .22	_	a _j Can
c	admium-mercury lithopone, marcon shade, bbis., irt, alid, E. of		[Çen
C	admium metal ingots or sticks, ton	.60 20	1.50	Cap ta Cap
6	fots, cs., divd lb. 1. admium nitrate, purif., flake 400-lb. dms., cl., tl., f.o.b. ship. pt.ib. 2. admium-seianide-lithopone, orange,	10 .	-	Свр
ľ	light shade, bibls., 400-lb. lots. frt. alid. E. of Rockles lb. 3.		.00	то Сарі
G	admium-seienide lithopone, red. dark		50	Cepr
	light shada bbis., same basis ib. 5.	27 🖖 , , 5.	30	Capa Capa Capa
	medium light shade, bbis., same bas. sis	57 6.	76 40	ı
1	idmium-seignide jähöpone, gellow, eli shades, bbis., same basis ib. 2.6 idmium suifate, 50-lb, dms., eny.) 7 3.	~ ` (1 Çerav
• •	quantity (a.b. ship, pl lb 4.0)5		Caray Egy Carbo
	ffeine, dom, USP, syn. dyst, an- hyd, powd, 100-lb, dns., c.l., t.l., frt, eld.,	0.		(FE b
Ca	mp., cryst., athyci., poyed., dms., 10,000 lbs. or more lb., 4,7 faniline, USP, dms.,	0 4.0 0 1.7 0 36.0	38 70 10	gen
Ca	lamus oil, dms	40.1		high

72% solids, same basis ton quicklime, gran, ind., bulk, works ton 109.27 Calcium carbonate, coated, bgs., c.l., works ton 100.93 Calcium carbonate, precip., bgs., c.i., ton carbonate precip. medium, bgs., c.i., works ton precip. dense, bgs., c.l., surface treated, bgs., c.l., works. ton 265.00 Litra fine, USP, bgs., c.l., works ton Calcium chloride, conc., reg. grade, 77-80%, flake, bulk c.l.	ENDING OCT. Low structure, bulk, a structure, bulk, a structure, bulk, c works. Low orks. Low or	24, 198 c.l. bb24 bb25 bb25 bb31 bb31 bb32 bb32 bb32 bb32 bb32
Works	ENDING OCT. low structure, bulk, o. vorks. sion (SAF), bulk, c. works. bermal, medium, borks. bermal, medium, borks. strefineries bele, t.o., f.o.b. works telloride, CP, consumer	24, 198 c.l. bb24 bb25 bb25 bb31 bb31 bb32 bb32 bb32 bb32 bb32
72% solids, same basis ton quicklime, gran, ind., bulk, works ton 109.27 Calcium carbonate, coated, bgs., c.l., works ton 100.93 Calcium carbonate, precip., bgs., c.i., ton carbonate precip. medium, bgs., c.i., works ton precip. dense, bgs., c.l., surface treated, bgs., c.l., works. ton 265.00 Litra fine, USP, bgs., c.l., works ton Calcium chloride, conc., reg. grade, 77-80%, flake, bulk c.l.	ENDING OCT. low structure, bulk, o. vorks. sion (SAF), bulk, c. works. bermal, medium, borks. bermal, medium, borks. strefineries bele, t.o., f.o.b. works telloride, CP, consumer	24, 198 c.l. bb24 bb25 bb25 bb31 bb31 bb32 bb32 bb32 bb32 bb32
Calcium carbonate, coated, bgs., c.l., works	ENDING OCT. low structure, bulk, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	24, 198 c.l. bb24 bb25 bc26 lb31 lb31 lb30 lb32 bc24 bc32 bc32 bc32
C.i.t	ENDING OCT. low structure, bulk, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,	24, 198 c.l. bb24 bb25 bc26 lb31 lb31 lb30 lb32 bc24 bc32 bc32 bc32
Calcium carbonate precip. medium, bgs., c.l., works	low structure, bulk, onks. Ite-super-abrasic vorks. sion (SAF), bulk, c works. cing (SRF), bulk, c works. barnal, medium, boorks. ks. bl, barge, f.o.b. Gulf r streffneres. bl, berge, f.o.b. works toloide, CP, consumer	C.I. 24 lb. 27 lb. 27 lb. 27 lb. 27 lb. 28 lb. 30 lb. 31 lb. 24 lb. 30 lb. 30 lb. 30 lb. 32 lb. 30 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 l
precip. dense. bgs., c.l., surface treated, bgs., c.l., surface treated, bgs., c.l., works. ton ultrafine, USP, bgs., c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., works. ton c.l., w	low structure, bulk, onks. Ite-super-abrasic vorks. sion (SAF), bulk, c works. cing (SRF), bulk, c works. barnal, medium, boorks. ks. bl, barge, f.o.b. Gulf r streffneres. bl, berge, f.o.b. works toloide, CP, consumer	C.I. 24 lb. 27 lb. 27 lb. 27 lb. 27 lb. 28 lb. 30 lb. 31 lb. 24 lb. 30 lb. 30 lb. 30 lb. 32 lb. 30 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 lb. 32 l
ultrafine, USP, bgs., cl.,works	orks. Ite-su per-abrasic vorks. sion (SAF), bulk, c works. rcing (SRF), bulk, c works. bermal, medium, boorks. bil, barge, f.o.b. Gulf r strellneries. bil, to., f.o.b. works telloride, CP, consumer	ib
80%, flake, bulk of bos., ct.	vorks sion (SAF), bulk, c. works rcing (SRF), bulk, c. works thermal, medium, boorks bl, barge, f.o.b. Gulf r s. trefineries bb le, t.o., f.o.b. works telloride, CP, consumer	lb25 fb28 fb31 lb31 lb40 lb21 lb24 lb32 lb32
	works works works barmal, medium, books ks bl, barge, f.o.b. Gulf r streffnerfes bb. te.t.o., f.o.b. works t.	.1., ib31 ib40 .1., ib21 &b24 ib30 ib32
Workston 153.00 - super-abra	works thermal, medium, be orks tks bl. barge, f.o.b. Gulf rs. strefineries bb. t.o., f.o.b. works to lobide, CP, consumer	.l., lb21 lb24 ga. lb30 lb32
C.I., same basis.	works. thermal, medium, books. ks. li, barge, f.o.b. Guif r 8. st refineries bb 9, t.o., f.o.b. works to loride, CP, consumer	b24 8. b30 b32
briggo grade 80-lb bross ton 279.00 - Carbon black,	ks. bil, barge, f.o.b. Gulf r bil, barge, f.o.b. Gulf r s. bil, t.o., f.o.b. works to libride, CP, consumer	lb32 19-
als, t.a., t.t., barge ton 99.75 — Carbon black	st refineries bb st refineries bb le, t.c., f.o.b. works to libride, CP, consumer c.l., frt, alldi	h 1252
Caldium chloride, USP, gran., 225-b.	ironde, CP, consumer c.l., frt. alld	
10,000 lbs. or more, f.o.b. Garbon tetrack		18, b 00
Galcium oyanamide, indust., anhyd.	73., 1.1., 171. aud	b31
Calcium hydride, lump, drae 25.	Cellulose (see CMC). NF, bots.	h en na
Calcium hypochlorita, 100-fb dres	BCOM, Guatemajan Nemalen, bos	b. 3.00
ies	0, NF, bulk, 100-lb. loi e, divd	8 105.00
Calchen todata 500 description 13.75 14.50 Ceara, No.	1. vellow bos to). 1.95
Works	y. No. 2, refined, bgs	1.75
Calcium lactate, NF, powd., pentahy-	, North Country No. 3 Joed, bos., top lote 1), D 110
more, f.o.b works b. 2.00 too lot	y. No 3, refined, bgs hauba wax, 20 to 10	
special gran oried grade, same ba- mesh, sis	20c. per lb. higher. 'egalabla oil semil son	d
I FOLD PRINT, E OF ROCKIES IN SE. [Der Gra	1890n, 400,000 A unit IM., 33 libs, or more . It	S 2076
di-Calcium partotherale tood grade 11 50 12.50 500.00	liq. In vegetable or 10 A units per gram, 3 more.	3
more Aunits	. beads, 10%, 167,00	0
ride complex, feed grade, 180 Gascara sagra:	b. dms., syn	7.00
500 ibs or more ib. 2.75 - Casein, imp	acid-precip., grd., 30 Australian, edible)-
grade, 18½% P. bulk, c.l., t.l. Australia	asis C.I.i ib n. indust., same basis lb	
USP, bgs , c.l., t.l., works, frt.	03 MOI. Wt., dms., frt. 0% back	
anhyd., USP, same basis. 100 lbs. 71.75 – Cassis, Korintii dentifice grade, same basis. 80 lbs. 49 90	A' bgs. ib.	18.50 1.05
Castor of, raw, Noncharle, monohydrate, food grade, USP 5-9 dms.	O. I, Braz. (anks lb.	.88 .31 .74
equald	dmsib. died, tanksib.	.78 .75
sts	bodied, tankslb.	.74 .65 1.10
Calcium propionate, dms., 2,000 lbs.	bgs., container foad. ami. Fia	.79⅓
Calcium elicate businesses at 1 Lastoraum dat (Wite In	154.00 18.00 11.00
Calcium silicate, paint grade (see Wolfestonite). Galomei, NF, mild powd., 100-lb. dms., 1.0.	b. b. kilo dms., 50-239 b. kilo. same basis. kilo.	7.93
Camphene chlorinated, 67-69% (see Toxaphene). Caustic soda (see	e Polash, caustic). Soda, caustic)	8.71
kgs	xas, dms., cns lb.	17.50 1.75
USP, powd., 165-ib. dms., 5,000 Cedryl acstate, dis	t. dms ib.	4.75 5.25 4.25
syn., reld., 1-oz. tebleta, otna, 1,000- lb, lota or more	b. powd., bgs., t.l.,	.48 37.00
white, dms	huturate noud	1.30
Cananga oli, Indonesian, dms kilo 17.50 – divd. E	content, bgs., t.l., ib. t. bgs., dvd. E. , b.	1.75
refd. pure, bgs	Dgs., dwd. E., ib.	1.59 1.81 1.83
Pepric aldehyde (aldehyde C-10) dms., 24,000-b.	re, high vis., bos., lots or more works, well, va	
ispromotem monomer, hake, pgs., t.t., std., tow or med	IVII VIA · Ivoe of	1.60
		1.35
aprylic acid, comi, pure tanksib.: 73½ //7 CeO ₂ , dms., apakom (see Peopler, red). Centum code, ontide	worksb. al grade, bgs., 50-	5.40 4.20
spelcum ofeoresh, NF, from dom., Chark (see Calcium)	. C.I., t.I., divd. E. Ib.	1.85 .881/2
	Hungarian, cs. b.	4.25 4.94
Yaway or, Poland, dins.,	egyptian D. S	2.70 45.00
Egyptian hos Cheriopodium of M	ons.	16.00 13.50
CEEL bulk at works	BOIL -	
	1. 40 % chioring. Corie 1	48
works b 2076 Chlorinated parafit bulk, dived, bulk, dived, bulk, dived, box 2375 50% chlorine, as bulk, cived, b 2300 70% chlorine, as bulk, cived, works	me basis	48 46%

tor 39., c.l.	,		PRICES	
ib. bgg. ton	385.00			
edium, ton	110.00	150.00	TWEEN ENDING OCT. 24, 198	36
iuriece 8. ton bgs.,	265.00	-		40 .:
ton	217.00	225.00	(ISAF)	70 .: 5 -
. с.I. tоп		_	Super-abrasion (SAF), bulk of	8 -
same ion II, bulk,		-	werni-reuniorcing (SRF), bulk, c.i	260 -
ton	217.00	-	bas. c.l. works 50	
(on ant ba-	285.00	Ξ	C.I., works	
ton ton 225-lb.		:	fineries	
2204D. lb. dms.,	.90	-	f.o.b. W. coast refineries bils. Carbon disulfide, t.o., f.o.b. works fon Carbon tetrachioride, CP, consumers,	12.6
f.o.b.	3.82	_	tech., dms., c.l., trt. alid lb	
anhyd. ton	400.00	450.00	tenk transport (min. 4,000 gals.) (rt. ald	
l.llb. i., 25- lb.	1.80	- 19 ns	Cardamorns, decort, Quaternales b. 200	-
dms., Rock-	10.00	13.25	Carmine, No. 40, NF, bulk, 100-lb, lots	9.7
00 lbs. bulk	92.40	-	or more, divid	140.00
klo 1.o.b. lb.	13.75 5.50	14.50	Ceara, No. 1, yellow, bgs., ton lotsb. 1.75 North Country, No. 2, refined, bgs.,	2.05 1.90
f.o.b.	23.65	25.65	Carnauba wax, North County, No. 1.55	1.65
ntahy- ba. or			Centrifuged, bgs., ton lots . lb 1.10 North Country, No 3, refined, bgs., ton lots	-
ib. 91s.1b. eba-	2.00 2.10	-	Powdered carnauba wax, 20 to 100 mash, 20c. per lb. higher.	1.45
ib. a., c.i ,	2.80	-	D-Carolene, in vegetable oil, semi-solid suspension, 400,000 A note	
s .lb .100-	85	-	per gram., 33 lbs. or more. lb. 32.75 b-Carotene, lig. in vegetable of	-
kilo grade, or	11 50	12.50	500,000 Å units per gram., 33 lbs or more	-
kllo 1 Chlo-	8.00	8.50	d-Carvone 25-lb dres ave	Ξ
e, 160 alid.,			Cascara sagrade bark, bulk	7.25 -
. lb. feed	2.75	-	Same basis c.i.f	_
l., t.l., lon frete,	228.00	-	Australian, Indust., same basis. c.l.1	_
a, frt. Olibs.	62.50	_	Cassio oil, Chinese, drns	-
0 lbs. 0 lbs. 16 lc.	71.75 49.90	Ξ	Cassia, Koriniji "A" bgs ib. 1.05 "B" bgs	1.10 .95
ede, frt.			reid dead 5-9 days	.33
lbs. ba-	50.50	-	Diown, 5-9 dms	Ξ
lbs. frt. lbs.	54.95 62.50	-	dehydrated, unbodied, tanks b 65 Castor oil, acids dehydrated, dms b 1.10 ricinoleic acid	-
lbs. . lb.	.50	- .55	f.o.b., Miami, Fig ton 154.00	.83
c.L. . ib.	.07	_	Byn., cns	35.00 _
/oliasto ns., . lb.	8.50	_	tech, bus., t.l., same basis, via 3.71	-
ю Тоха 18.,	iphene).		Caustic Soda (see Soda, caustic). Caustic Soda (see Soda, caustic). Cadadeal oil, dms.	
lb. Is. Ib.	3.63 1.80	3.70	Virginia	2.50
100 16.	2.36	_ ·	Cadryl acetate, dist., dms	5.30
00- 15. 15.	3.60 1.65	-	Cellulose acetate, cowd., box., ti	Ξ
lb. Ro.	2.00 2.66	2.85	Cellulose acetate butyrate, powd.	
ilo 1 b.	17.50 1.90	. =	38% build content have the lib. 1.76	
b.	2.10 .60 .60	.65 .66	50% butry content, bgs., dwd. E., ib. 1.69 55% butry content, bgs., dwd. E., ib. 1.81 55% butry content, bgs., dwd. E. ib. 1.83 Celluiose gum, pure, high vis., bgs., 24,000-b. lots or more works,	2
i., ··· b,	3.95	5.35		1.70
L, b, b,	.87 .85	-	t.l., f.o.b. Hopewel, va b. 1.80	1.90
B	.35		works.	<u> </u>
).	.73½	7	Cerium oxide, optical grade, box 50.	1.60
v . 11	1.00	_ 1	Cetylalcohol NE cre. of the charters.	1.90 1.27
17			Roman, cs. 4.26	4.50
22	2.00 . 91	5.00 5.00	Egyptian, whote 6 2.70 Charnomile oil, blue, Egyptian b 545.00 blue, Hungarian b 370.90	3.00
	50	.53	Chamonile of, blue, Egyptian b. 545,00 blue, Hungarian b. 370,90 Cheropodium off, NP, one. b. 16,00 Chicago acid, dry, bbis., int. alid. ib. 13,50 Chiles (see Pennis, red.)	
	21 <i>26</i> 2425	.	Chicagolista and Adams	
4.0	2075 2375		Chorinated paraffin, 40% priorine. Chorinated paraffin, 40% priorine. built divel, zone 1 50% chiorine, asme bissis ib. 45% 60% chiorine, asme bissis ib. 45% 70% chiorine, lightous, 50-16 bgs; o.t., divd., zone 1	4614
	2300		60% chiorine, same basis ib. 46%	4774 34812
٠,	EUUV	المانية والأ	POST OIL dwd. Zhrie 1	i, maja dib

CHEMICAL PRICES
PNIVE3

CHEMIC				25 -
CHEMIC	JH			64 -
BRIAFA		Ĭ	CMC, putif., high vis., (see Cellulose gum). Coellus pitch, inclust., ilq., works ton. 250.0	00 255.00
PRICES		· I	roofing, 140-155, Federal specifica- tion RP-381 Type 1, bulk	nn _
LINAPA	•		Cobalt acetate, dms., t.l., frt, alid lb. 3.0	
WEEK ENDING OCT. 24	. 1986		Cobalt carbonate, powd., dms., frt.	81 8.18
			Cobalt chloride, dms. 5,000 lbs. or more, ft. squald	
Chlorinated paraffin, Zone 2 prices are Zone 3 prices are 2c per lb. high	ic. per ib. ier and t.J.	. nigner and drum prices	Cobalt hydrate, dms., t.l., irt. alid ib. 62 Cobalt metal, 99.5-98.9%, 250-kilo.	
zre 5g per lb. higher Chlorinated rubber, 5, 10, 20 cps., bgs,	4.00		dms., f.o.b. NY, Chicago fb. 11.7 Cobalt naphthenate, liq., 6% Co.,	_
t.i., divd	1.66 1.92	Ξ	dris., divd lb. 2.0 Cobalt nitrate, driss., t.l., frt. alid lb. 2.7	
125 cps., bgs., t.l., divd	2.60 2.75	Ξ	Cobalt exide, imp., black, 72-73%	
Chilorine, tanks single units works,	195.00	200.00	Cobalt oxide, imp., 70-71% Co lb. 9.7 Cobalt phosphate powd. 32.1% Co.,	_
Chioroscetic ecid, mono, high purity, liake, 98% bulk l.o.b.	.56	_	dme., dlvdb. 1.3 Cobalt resinate fused, 3% Co.,	
worksib. 2-Chloro-4-aminotoluene, tech., #q.,	.56 1.86	-	Cobalt sulfate, cryst., bgs., 10,000 lbs.	161/2 -
dms., c.l., t.l., f.o.b. works . ib. o-Chloroanline, liquid, dms., c.l., f.o.b.	1.63	_	ormore, frt. ald. E b. 2.6 monohydrate, dime., frt. ald b. 4.5	
works	1.85 1.70	=	Cobait talate, 6% Co., dms., divd b. 2.1 Codilana bark, bis	Ю .45
fiske, dna., c.i., same basis lb. o-Chlorobenzaidehyde, dms., t.i.,	2.00	-	Cocon butter, spot	
works	2.46	-	Coconut oil acids, distilled, t.c.,	2 .58
lbs. or more, works lb. o-Chlorobenzoic scid, drns. Lt.f. wks lb.	3.84 3.90	3.85		.63
p-Chlorobenzola acid, dms., 500-fb. lois or more, workslb.	1.69	2.25	bulkgal. 6.5 Codeine alkaloid, NF, 25-kilo lota, .kilo. 900.0	
Chloroform, tech, tanke, distr. divd lb. toch., consumers, tanks, divd lb.	.341/2 .341/2	-	Godeine phosphate, USP, cns., 25-kilo lotskilo 640.0	0 -
NF tanks, min., consumer, 4,000	.351/2	_	Codeins sulfate, NF cns., 25-kilo lotskilo 775.0	
P-Chloro-4-nitroanline, paste, com- modity basis, dms., t.l.,			Codiver of, NF, dms	
i.o.b. ib. powd., same basis	3.06 3.16	_	Copaibsoil, cris., dms	
6-Chloro-2-nitroanline, paste, 172.5 mol. wt., commodity basis,	•		tech., dms., t.l., works lb	1 .74
dms., L.I., f.o.b	2.25 2.70	=	100,000-lbaper-year con- tracts, works	14 -
o-Chiorophenol, dime., c.i., frt.	2.00	2.40	Copper carbonate, 55% Cu, dark, dense, 50-lb. bgs., c.l., t.l.,	_
p-Chloropheno!, dms., c.l., frt. equaldb	1.26	1.70	works 100 fbs. 108.3 light, fluffy, 50 lb. bags, c.l., t.l.,	0 -
Chioropicris, comit., 1,600-lb. cyls., t.l., f.o.b. works	1.26	_	works	0 -
Chlorosulfonic acid, tanks, frt.	.181⁄2	_	Works	90 -
o-Chlorololuana tach tanks	1.00	_	ib. lots or more ib. 2.3 Copper fluoborate, (cupric), liq. conc.,	30 2.62
works	24.00	-	dms., t.l., works, frt.	32 -
kijo dans , f.o.b. Springlield,			Copper gluconate, FCC grade, 25-fb. dm., frt. equaki	
Mo	6.90	-	Copper metal electrolytic wire bars,	321/2 -
aqueous, t.c., t.t., divd. E of Rockies	.28	-	Copper naphthenate, #q., 8% Cu., dms., frt. alki	_
60% dry supplement, lb. Choline chloride, 60% dry supplement,	.39	-	Copper nitrate (cupric), purif., flake,	1314 -
bulk hopper cars b. bgs., 50,000 lbs. min. b.	.39 .40	=	Copper cleate, solid, 8% Cu. dms.,	97 -
Choline chloride, pharmaceutical, 50 kilo. lots, 1.o.b. Springfield,	# no		Copper oxide, black (cupric), dms., 80,000-fb. lots, works	
Mokilo. Choine Chydrogen citrate, 98% min.,	5.00	-	red (cuprous), dms., 97%, USN Type 1. (AA), 80,000-lb. lots,	••
50 kilo lots, f.o.b. Springfield, Mokilo. Chrome green, CP extra light, bgs.,	6.00	-	works	
divd. E. of Rockles	1.68 1.70	-	Copper-8-quinolinolate, 10%, ilq. emulsion, t.l., divdib. 2.	
medium, bgs., same basis b. extra deep. CP., same basis b.	1.72 1.74	-	Copper sulfate, cryst., pentshydrate, 99% bgs., c.l., f.o.b.	-
Chrome orange, CP, bgs., divd. E. of Rocides	.83	.89	CP, pentahydrate, cryst., dms., l.c.l.	45 -
Chrome years CP bols., divd. E. of	1.09	1.18	works	00 -
throme seid, 99%%, flake dms., c.i.,	1.18	-	Works 100 ibs . 75.	
Chromium aceate, solu, 7//%, dma.	1.25	-	Corlander oil, USP, dms	==
500-2,000-10. lots, works fb. Chromium fluoride, dms t.i	.10	-		38 37
Chromium nitrate, dans L. f.o.b b.	.81 1.45	_	Comol, crude, foots (spapstock), 95% acid: New York	 13½ .14
10% metal soin., 500-b. dms. same basisib.	.74	.88	tanksb.	50 - 32 40
Chromium axide, hydrated, 50-lb.	5.50		Works 100 ms. 11	
pure, bgs., c.l	1.90 1.85	2.00 2.45	Or more	80
Cinnamon, H2	4.50 1.05	1.10	Cottonseed of (See Oils, Fats & Waxes ma	deat money t
Cannamon leaf oil, dms. 8b. Citral, nat., dms. 8b.	105.00 2.75	110.00	atock), acid. 95%, tanks	u report.i
syn., 55-gal. dms. f.o.b	5.50 3.18	6.65 -	Cottonseed of enids diet days	.13 .63
b. dnis., t.l., lb. Citric acid, USP, anhyd., gran. 250-lb.	1.19	-	Coursein, NF X, cryst., over 600 b	.55 -
dins., t J., del	.88	-	Cream of fartar (see Potential of blackers)	.00 6.20
Java, dms	2.15 2.60	2.20	Craosote, coaltar, grade 1, tanks,	.15 1.18
China, dms	2.60 3.85	7.40	p-Creskline, fused, dms, works in 4	.194 1.17
Citronetolorums, f.o b	3.68 5.60	6 50	lanks, same basis	.71 - .65 -
CitroneTyl formate, 25-lb. cns lb. Civel, erbi., bots lb.	6.86 20.00	-	buk, same basis	.94 -
Clay bea_ dom, air floated, bgs., c.l.,	400.00	-	bulk, same basis	.87 - .75 -
dom., crushed, moisture repet-	49.00	-	buk, same basis	.87 -
loni, bulk, c.l., Tenn ton C'ay China (see Kaofin). Cleaners, risphtha. 140° flash tanks	24.00	-	bulk, same basis	.22 -
New Jersey or New York			Cresylo acid, coalter, dom., metapara	.95 1.15
divd	1.40 3.15	:	tanks, irt. alid.	.58 _
Madagascar, reg. kilo Crove budot kilo Croves, Brazil lh	3.40 26.00	27.00	Crasyro acio, com., metapera content	.68 -

1.25) 7) 925 342
will, vs. 100%, 10.5. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00) 7) 925 342
See Calubose gum) 925 3V2
Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name Name	925 3V2
1 Type 1, bulk	31/2
11, frt. alst.	
b. 5.6000 lbs. or d. 1.6	
10	
8. 94, 250-kilo. 1. int. alid b. 2.06	
1, int. alid. b. 2.74 3.45 black, 72-73% b. b. 5.75 co. b. 9.78 co. 9.78	
Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73% Disok, 72-73	
## 2.0 D. 9.78	
1.35	_
293, 10,000 lbs. di. E. b. 2.81 3.54 frt. abd. b. 4.55 6.02 drhs., divd. b. 2.16	
3.4 5.	•
B. 40 45 45 45 45 45 45 45	
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Defluctinated phosphate (tricalcium), feed grade, 18°F P. C.I., bulk,	
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s & Waxes market report). 2.4-Di-tert-arrylphenot, min. 95,5%, dms., c.l., t.l., works h. 1 04	
tanks, worksb97 – Diarylide yellow, OT, (yellow 14), dms.	
th. 32 .40 o-Dianisidine dinydrochloride, 100%	
SP, dms., 5 kilos 11.22 11.43 2,6-Di-tert-Butyl-p-Cresol (see Butylated hydroxytokuens))
Olis, Falis & Waxes market report \ Works	36
XXI, Fata & Waxes market report.) Dibutyl phthalete, tanks, works. b	80
dist. dms. ib. 63 tanks, same basis	
/st. over 600-b	
Potassium bitartrate), 8.00 6.20 10890, dms., works	
grade 1, tanks,gat. 1,15 1,18 O-Dichlorobenzene, tech., 80%, drns.	57
ms, works ib. 4.31 . tanks, same basis b. 45	
Ma., Li., f.c.b., b. 1.71 - 98% refd., dme., c.l., same be- sia., b	
dra. tl. to het acust in	52
2.6-Dightoro-4-nitrograffine dime	
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a	
We 25%, realn and Dicyclohexyl phthalete, box, or the	•
melenere centeri 58 - Dicyclopentadiene, high-purity 97	
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B. 1.60 Diethenolarnine leuryl suifate, tanks, frt, elid. DovP (see Dimethyl diothorovinyl phosphate).	47

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. 1	Diethyl berbituric acid (see Barbital). Diethyl carbonate, tankwagona,			: I	Sub-off
0	I.o.b.worksb. Diethyl ethanolamine, CP dms., cl., dlvdlb,	1.40	-	:	()iphen) ()iphen
7	Diethyl othanolamine tech. Sc ner ib low	1.18 1.10 Mar.	:	:	mo oct
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25	DistryiDenzene, tanks, f.o.b. works ib. Di-2-ethyihexyl azelate (see Dioctyl azela	.98	-	!	Podecen Dodecen
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	dms., c.l., irt. alid. E b. tanks. irt. alid. E	.85 .67	:	1	Dyes, coa
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	Diethylene glycol monomethyl ether, dms., c.i., frt. alid ib.	.62			No. 2 Green, FD Red, FD&
20	tanks, frt. alld b. Diethylene glycol monobutyl ether ac- etate, dms., c.l., dlvd. E lb.	.64 .80		1	Yesow, F
cohol	tanks, divd. E	.72	•	İ	Dyes, coa a d
	etate, dms., c.l., frt. eld. E. b. tanks, frt. eld b. Diethylenetriamine, tanks, f.o.b.	80 72	:	į	Green, D.
,	works	1.60	1.61	:	Red, D&C No. 17 No. 19
	pentasodium salt solution, tank- cars/tanktrucks, frt- equalized	.45			No. 22 No 28
	Digitoxin, USP, Imp., bots gram Digiyool laurate, dms., ton lots ib.	2.60 .324	300 .73		No 33 Yefow, Di No 8
	Diglycol stearate, dms., t.1 lb. Dihydrazine sulfate, dms., works lb. Dihydrostreptomycin sulfate, bulk kilo.	.62 1.10 48.00	125		No. 10 No. 11
argal.	Dihydroxyacetone, 50-kilo lots, workskilo. Di-isobutyi ketone, tanks, divdb	40.00	:		Dyes, coa: ar de
rices, ø 5c.	Di-Isobutyi phthalate tanks, divd. E. Ib. Di-Isobutyiene, tanks, f.o.b. Hous-	.55	5		ABN 1 E Dyes, A ABI 45 /
e hy-	ton	37 .40 .40	¢.		ABI 90 / ABI 113
	Di-iso-octyl azelate, tanks, divd. E ib. Di-iso-octyl phthalate, tanks, divd ib.	.99 .40	1.07		AGr 16 (AOr 7 1 AOr 8 R
•	Di-isopropanolamine, dma., c.i., irt. aild ib. tanks, samo basis	.66\/r .56\/r	:		AOr 101 AOr 741
	Di-Isopropylamine, dms., c.l. divd ib. tanks, samo basis	1.17 1.07	:		AR 20 . AR 14 A AR 18 S
	Dilguryi 3,3-thiodipropionate, dms., t.l., frt. alidib. Dili oli, USP, dms	1.89 7.00	625		AR 88 F AR 151
•	Dimethyl anthranilate, dms ib. Dimethyl bonzyl carbinyl acetate, 25-	15.80 6.95			AV 175 AV 49 41 AY 17 F
-	ib dms ib. Dimethyl carbonate, dms. t.t., f.o.b. works.	.90			AY23T 88/92/ 88/48
- 00	works. Dimethyl dichlorovinyl phosphate, 55-gal. dms. f.o.b. b.	1.80	190		BQ134 BGr41
00	Dimethyl othonolamino, anhyd., dms., c.i., dlvd. E	1.15 1.07	1.13 1.17		BV1M BV104 BY2Bo
.00	Dimethyl other, acrosol grade, lanks, divd	.38	-	i I	DBI1S) Ex. Co
-	Works	.85 2.48	26)	Ì	OBI 8 Az DBIk 22 Fasi
	works	2.40 ,57			0 Br 230 200 D Gr 26 R
	Lanks,	.46 .59 .78	:		DR 248 DR 31 R
-	Dimethyl sulfoxide, tanks, works b. Dimethylacetamide, bulk f.o.b. b. Dimethylamine, 25% soin, tanks, irt.	,87Vz	:		DR 80 Fe DR 81 Pe DR 251 F
-	1 0quald., 100% basis	488, 488,			UO: 102 WS. Co
_	basis	1.09	:		D Y 4 8. 125 Brillant
e) .86	N.N.Dimethyliomamide.dasc.l., t.l.,	1.11 .67			O Y 11 S Con D Y 45
.64 .60	(.o.b., works	49 1.22	•	ŀ	200y
.89 -	Dinitroaniline, orange toner, CP, Dys., ib.	5,20	•		OSR 91 P
-	2.4-Dinitrochlorobenzene, crystalizing at 47°, t.l., f.o.b. Charlotte, N.C	,96	. •	ļ	Danta o
-	Chanotte, N.C.	1.95	AS		0a0r37 C 0aV1 4RI 0aV28 Bo
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-	tanks, worksb.		y Iği		VB1 Jade VB1 25 Of
- 59	Dioctyl azalate, tanks, tryb b.	40	. 15	K	
.52 .47	Dicetyl sebacate, 99%, tarke, lo. Works	1.13 1.13	· } {		5
-	Dispute on the base of the divide	1.48	, 1 (2)		
=	Dipentene steam-diet., tanks, f.o.b.	25 96	3		Enlyn tech.
-	Dip oil (see Tar acid oil).		1.5°. 3415.		
_ .47	Dip of (see Tar acts on). Diphenhydramine hydrochlorids, USP. dom., 1,000-kilo lots, dms., idio.	50.00)	I	Episcino in Episcino su Episcino su
: - ',	Mocke.			£	Epichicrohydr
	tanka, works.				
	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR				

Diphenyloxide, tech. grade, tanks Diphenylamina, reld., flake, bgs	ξ.l.,	1.20	Epinephrine base, syn., USP, bots 190-gram lotsgram		
WORKS, ITL EQUARA	lb. 1.00	-	Solid, bos., ()	.60 1.31	1.41
octyfated, flake, bgs., t.l., f.o. works	. 784	-	Erythorbic acid, powd., gran, 100 is	1.281/2	1.331/2
Dishanulhudantoin-aodium US	P. 2.32		works	4.10	4.25
dmsdi-isocvana	10. 3.UU te.	5.60	Ester gum, gum-rosin type, dms., c.l., divd., li., Md., Ky., E. States, Mincapols, N.C., Chio, St.		
polymeno, bulk, c.i., min. i	rt. lb91	-	Ester gum, wood-rosin type dime. a.	.75	-
Opropylene glycol, tanks, frt. alki. Dyropylene glycol monomethyl ethi drns., c.l., dlvd	er,	<u>-</u>	Ethyl acetate, syn., 85-88%, teaks	.43	.48
tanks, same basis. pro-triyiguanidine, powd., dms., t	b46	Ξ	99% tentre eller	.41 .41%	.41½ .42½
irt. elid	1). 2.92 9.,	-	Ethyl aceloacetate drns., c.l., dlvd. b. tanks, dvd. b. Ethyl acylote, tanks, frt alld. b.	1.13 1.05	-
t.i., frt. alidh ht/dec/f phthalate, tanks, divdii	b. 3.11 b64	.65	free, tanks divd E	.66 1.55	-
Dundecyi phthalate, tanks, divd li Xvinyibenzene, 100% basis, tank works	K6	.65 2.60	then 190 of Jay (no	ee prices 12	c. higher
dms, 100% basis	b. 3.00	2.70	f.o.b. works	1.06	1.28
odecenyl succinic anhydride, dms c.i., t.i., divdit	 D88	-	Price range attributable to various state Ethyl elcohol, denat. (see Denatured alco Ethyl p-aminobenzoate, NF (see Benzocs Ethyl benzoate, dime.) tax incently hol. ethyl).	·es.
iodecylbenzene (see Detengent Alky) Iodecylphenol, tanks, min. frt. alig	3 .		Ethyl bromide, tech, 98% days of	1.35	1.50
yes, coaltar, certified colors for food drugs and cosmetics, 100 /t	í,	.53	Ethyl butyrate done	.76 1.35	_ 1.50
and over, frt. prepaid or aild. lue, FD&C. No. 1		22.60	Ethyl cafulose, standard vis., 7 cps. bgs., t.l., frt. equald, E lb. standard vis., 10, 20, 45, 100 cps.,	4.55	-
No. 2	29.15 49.50	29.22 65.00	mediumyla 50 70 100 and 41 41	4.17	4.22
ed, FD&C, No. 3	7.46	24.50 7.85	USP vis. 7 cps bgs., t.l., frt. equald	4.25	-
to.6	3	6.75	USP 10,20,45,100 bgs., t.i., frt. equald E	4.88	-
divd.		_	Frt. equald F	4.59	4.69
io. 6	42.80 18.85	-	tenks. frt. alkt.	4.51 .26 .24	- .26½
6.17	38.25	-	Ethyl ethanolamines, mixed drug */	41.00	.26V2 -
io. 22	59.95	-	divd. E ib. Ethyl etner, refined, tanks, 1 o.b. ib.	1.23 1.15	-
atuw, D&C. No. 7	21.00	=	Ethyl hexanoste, drns	.46 4.25	4.75
0.10	48.80 35.25	48 85	tanks divd. E	.63 .57	- 1
res, coaliar, for general use in cloth and paper dyelno fby Color In.			mixed tanks for all if in	.79.5	_
dex Name), f.o.b. works ABk 1 Blue black ex. conc fb. Dyes, ABI 9 Blue 2G lb.	5.75	_	2-Ethylhexyl alcohol, tanks divd ib. Ethyl fodide, cbys., works ib.	.35 6.25	-
ABI 45 Alizarina Blu SAP 150% lb. ABI 90 Alizarina Br. Cv G	19.85 14.13	Ξ	Ethyl linalool syn. 55-gal dms lb Ethyl linalyl acetate, syn. 55-gal dms. lb	10.60 10.85	-
AG: 16 Gest 2G 333%	6.55 22.12	Ξ	equald tanks, [rt	1.06	_
AOr 711 Ib. AOr 8 RO Ex. Conc. Ib.	3.72 4.00	-	n-ctnyi morpholine, dms., t.l., frt.	2.00-	
AOr 10 Wool Or G	4.30 6.15	-	tanks, same basis. ib. n-Ethyl-a-naphthylamine, dms. works. ib.	1.92	-
AR 18 Scarlet 4R Conc	5.13 8.85 5.45	Ξ	Ethyl parathion (see Perathion, ethyt)	1.04	-
AR 151 Silk Red 3R Conc lb.	6.85 4.50	Ξ	Ethyl silicate dist. (see Tetraethyl orthosilica Ethyl silicate, 40% available SiO.	ite).	- 1
AV 49 4BNS Conc. Ib.	9.75 12.22	-	dris., t.l., t.o.b. works jb. tanks. f.o.b. works jb.	1.45 1 1.39	.46 _
A Y 23 Tartrazine Ex Conc Ib.	5.69 6.18	=	N-Ethyl-m-toluktine, tech., ilq., dms., c.l., f.o.b	3.18	- '
BO L. Inde Caralle	16.40 4.42 9.56		N-Ethyl-o-toluldine, drns	3.10 2.85 2	90
BV 1 Methyl Solve Co	6.90 6.80	-	25 lb. dms. 500 lbs. or more lb. 1	3.50 3.75	<u> </u>
BY 2 Bond Yell SFA 150% Ib.	10.95 10.10	-	100 lb. dms., less than 500 lbs lb. 1 Ethylamine (see Mono-Di- and Tri-) N-Ethylaniline, dms., c.l., t.l., f.o.b.	4.00 14.	.50 F
Ex. Conc. 300%	4.62 9.25	-	WORKS	1.86 1.58	- .
Fact Clear Con Con Con Con Con Con Con Con Con Con	9.45 2.85 4.28	-	Tox		- F
200% Posts Franciscown BIRNB	7.23	_	Ethylene, contract, divd	.18 . 6.00 18.	18/2
DR 248 Ex. Conc.	9.15 7.98	-	works		305 25
R 80 Fast Red 88L N R 80 Fast Red 88L N R 81 Paper Red 88L P R 251 Fast Scarlet AV LOC 102 Fast Orange WSD 1 Lo	6.16 6.15	-	trasodium sait, soin., t.c., t. t.,	B.,	26
NA LAGA CEAR DE LOS DUSTINOS	6.85 6.25 2.47	-	Ethylene dibromide dma., c.i., frt.,	.361/2 -	
1 4 Brilliant Paper Yell 3GX	11.25	-	equaldib. tanks, frt. equaldib. Ethylone dichloride, tanks, f.o.b.		16 5
Y 11 Stillbane Voll 19 ib.	4.69 1.75	-	Works	.17 .1	17¼ Ĝi
141 Fact V-1 D.	3.03	-	alid	.31 -	G
	9.75 14.40	- 1	tarks, dvd. E lb. Ethylene glycol monoethyl ether,	.411/2	
37 3 Yaran 200%	4.26 21.00	-	tanks, divd. Eb. Ethylene glycol monomethyl ether, tanks, divd. Eb.	.51 – .34 –	}
10r3 Orange Com	3.65 6.84	-	Ethylene glycol monobutyl ether ac-	.641/2 -	ĺ
\$ V28 Pond In	4.91 3.77 7.85	-	Ethylene glycol monoethyl ether ac- etate, tanks, ft. alid., E lb.	.551/2 ~	Ģe
1 102 Plys COLF	17.25 10.05	- 1		.43 -	Ge 5
61 lade 6	22.80 4.10	- }	Ethylene trichloride (see Trichloroethylene).	.35 .41 .50 -	Ge
Bx 25 Olive TA Paste	5.50 5.85	-	Eucalyptus Citrisdora Oil, Chinese kilo 3.	05 – 65 –	
					Ger
_		. [- 10 m	Ger
		1			Gils
^{10, 18} ch., 95-99%, dms., t.l b. ^{10, 18} ch., 95-99%, dms., t.l b. ^{10, 18} ch., 95-99%, dms., t.l b.		,] ,		<u> </u>	gi Ging
King had	7.00			37	Ging
isse than 1,000 kg cryst.	1.25 38.25 <i>4</i> 0	- I.	Inclien	30 82 35 32	
tombuta 1,000 kilna		25 1	Ferria chiloride annya., tech., 350-lb., dme.,a.l., worke, 100 lbs. 38.0 Ferria chiloride, 42 Be: phiato grade	0	Giuc
iowa ib.	86	-" ['	arno chionde, az de: prioto graco cime, c.l. works 100 lbs 9,1		/ ja
19		1	 Bis in the state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	1. 1	10 July 1944

Epinephrine base, syn., USP, bots						
Epoxy resin Moulet bulk tenter at gra	თ .60	_	Ferrischloride, sewage grade, 100 per-			
		1.41 2 1.331/2	cent basis, i.o.b. works, tank workston	176,00	95E 00	Ш
Erythorbic acid, powd, crep, 100	_	- 1.0372	Ferric nitrate, cryat., dms., t.l., f.o.b. lb. Farric oxalate, tech., gran., 50-lb. dm.,	.64	255.00 -	- 11
works the mixed the following	J.			1.65	_	
		4.25	Ferric phosphate, FCCq insoluble pour			- 11
Minneapolis N.C. Oblo. 6	9,		I USI. DITIS TO TITUS IND.	1.10	1.15	- 11
		_	Dearls, 60-ib dm	4.44		-
Sama basis		-	I 'V'III ID'SIIIBIG, DISCID. A 754 CA	1.11	~	
I P COLDIO, BVII., MAJAMUL INDL.		.48	Ferric sulfate, partly bydrated 100 h	.45	-	
dvd		41%	I Pro. C.L. WURKS.	141.00	_	
tanks, divd	1.13	.421/2	bulk, works. ton Ferric ammonium citrte, NF, brown,	117.00	-	ā
		=	green gran. 100 lb. dms., 2,000 lb. mln., f.o.b. shipping			- 1
free tanks died 5	(1 Ph	2.00	2.95	- 1
Ethyl alcohol, absolute, 200 pf., tax than 190 pf., tax free.	. 1.55 t free prices	12c. hlaher	2c. per pound surcharge for shipments to Ferric-ammonium oxalate, fine gran.	W. of Denv	er 2.83	
Ethyl alcohol, fermentation tanks			250-lb, dma. Lf., f o b, works			
Price range ettributable to use and	1.06	1.28	Ferric hydroxyethylene diaminetri	.42	-	Gu
Ethyl alcohol, denat. (see Denatured al	cohol, ethyl)	ntives.).	I GCOUC BOXI. INTRIBUTED Availe			"1
Ethyl benzosle dme	ocaine).	1.50	sodium sait, soin., 4.5% Fe, t.c., t. t., f.o.b. works b.	.55	_	- 1
irl alid F	·	1.50	agricultural grade, sodium salt solu- tion, 5% Fe, t.c., t, t.o.b.		-	-
		1.50		.64	-	- 1
bos., t.l., frt, equeld E	4.55		works, frt. equald	.64		
standard vis., 10, 20, 45, 100 cps., t.l., frt. equald. E b.		-	Ferrous gluconate, NF, t.l., works E.b. Ferrous naphthenate, liq., 6%, Fe.	2.25	=	a
1 10001010 MB., 50, 70, 100 CDs 11 (A	4.17	4.22		1.17	_	~
USP vis. 7 cos bos t i frt equald	4.25	-	works.		_	1 :
USP 10 20 45 100 here 11 15	4.88	-	nepulnydrata, dran, bulk til forb	30.00	-	
USP 10,20,45,100 bgs., t.i., frt.	4.59	4.69	monohydrate, gran, bulk 11 fo h	145.00	150.00	Gh
VSP (medium) 50,70,100 bgs., t.l., Frt. equald. E lb.		4.05	workston USP, powd., 400-lb. drnsb.	170.00	180.00	Gh
I CUTY CHURCO, LECT., CVIA. 187 SIM IN	4.51 .26	- .261/2	Cryst 250-in dms	.49 .61	-	1.
Ethyl chnamate, drys	.24 41.00	.261/2	Fir oil, Canada dms	10.00	-	
I Eviyi etilaridarnınes mixed dine 🕡		-	FISTON, TEND. Alkalı tarıke olu	12.75 .29	-	Gi
divd. E	1.23 1.15	-	kettle-bodled, tanks. ib light, cold-pressed, dms., c.l. ib.	.32	.36	Gi
Ethyl exercete dos	.46	-	Laurka	.34 .26	-	G h
<-Ethylnexoic acid, dms., c.i., t.i., divd	4.25	4.75	Fishmeal, dom., menhaden, 60% protein grd., bulk, f.o.b. At-			Gi
E	.63 .57	-	RATEC DORL ton	295.00	-	Gr.
2-Ethylhexyl acrylate, straight or mixed tanks, in, ald E ib.		-	f.o.b. Gulf port	290.00	-	1 9
Z'⊑WIYIN@XVIBICODOL 180ke dlud III.	.79.5 .35	-	bulk, c.l., t.l., ex whse , f.o.b Atlantic and Gulf ports ton.			Gr
Ethyl inglool syn. 55-gal. dgs lb	6.25	-	Procedure acid, dms. t.i., works, frt	285.00	-	Ι,
Euriyi iinaiyi acetate, svn. 55-gal	10.60	-	equald ib Fluorocarbon, No. 11 bulk, tanks,	.70	-	- 1 '
dms	10 85	-	I GOIVO IN	57	.64	Gr
equald	1.06	-	No. 12, bulk, same basis	.68 1 05	.74 1.14	- 1
alid	2.00-		No. 113, bulk, same basisib. No. 114, bulk, same basisib.	.89	.93ó	Gr
tanks, same basis ib. n-Ethyl-a-naphthylamine. dms.	1.92	-	1 Fivositicic acid (see Hydrofit mellion enter	1.02	1.08	"
works ib. Ethyl oxalate (see Diethyl oxalate).	1.04	-	Formaldehyde, 37% methanol free (un- inhibited) divd., gulf	.088	0005	Gra
EINVI Darathion (see Perethion ethus)			1 99-95% (1% malhandi tanka		.0905	
Ethyl silicate dist. (see Tetraethyl orthosi Ethyl silicate, 40% available SiO ₂ .	licate).		divdib. 37% (inhibited 7% methanol,	.1015	.1065	1
ams., t.l., f.o.b. works (6)	1.45	1.46	divdib. 37% (inhibited 11-15% methanol)	.0945	.1025	Gre
tanks f.o.b. works lb. N-Ethyl-m-toluidine, tech., ilq., dms.,	1.39	-	i tanks, divd	.1055	.1060	Gre Gus
c.i., f.o.b	3.18	-	dms., same basis	.39 .44	-	
N-Ethyl-o-toluidine, dms (b)	3.10 2.85	2.90	I Formic acid 90% tanks, f.o.h		-	Gua
more dms., 500 lbs. or	13.50		works	.361/2 .511/2	-	Gua
25 lb. dms., 500 lbs. or more lb. 100 lb. dms., less than 500 lbs lb.	13.75		Fructose, cryst., 18,000 kilos or more, dms		* 00] in
Ethylanina (see Mono-Di- and Tal-)	14.00	14.50	Fumaric acid, food grade, bgs. t.i., fr.	.90	1.03	Í
N-Ethylaniline, dms., c.l., t.l., f.o.b. works	1.66	_	equaid. Eb. tech. grade, bgs., t.l., f.o.b. frt,	.75%	.771/2	
lanks, same basia	1.58	-	equald		.621/	
Ethylbenzene, bulk, f.o.b. Houston, Tox	.22	.23	iowa, and Balle Glade. Fig. 15	.75	_	
Ethylene, contract, divd	.18	.181/2	Furfuryl alcohol, tanks, f.o.b. Memphis, Tenn. and Omaha, Neb fb.	.72	_	
CINYJONGGIOMINO. 99%, LANKS. LO.D.		18.25			_	
worksib. Ethylenodiamine dihydriodkisib.	1.30 7.55	1.305 9.25				Heliot
Ethylenediamine tetraecelio acid, te- trasodium salt, soin., t.c., t. t.,	7.55	5.25				Hemk Henb
irt. aquaid	.361/2	- 1	U			Hapte
Ethylene dibromide dma., c.i., frt., equald	.38	.46				959
lanks. Irt. eguald	.32	.42	G salt does fot allet 100% begin. Its	2 90		
Ethylone dichloride, tanks, f.o.b. workslb.	.17	.17¼	Gallic acid, 400-kito lots kito 2	2.30 3.05	-	Hepta I-Hexa
Ethylene glycol, Indust., tanks, frt.	.31				0.00	Hexat
tinylano glycol, monobutyl ather,		-	l.t.l., dlvd		1.75	Hexan
tanks dvd. E	.411/2	-	150 AOAC test, dms., l.t.l b.		1.85 1.95	
tanks, divd. E	.51	- [175 AOAC test, dms., Lt.l lb.	.95	2.05	
tanks, dlvd. E lb.	.34	- 1	225 AOAC (est, dins., l.t.l lb. 2	2.10 2	2.15 2.25	Unw
Ethylene glycol monobutyl ether ac- etate tenks, frt. akt. E. , lb,	.641/2	_ 1	250 AOAC test, dms., i.t.i ib. 275 AOAC test, dms., i.t.i ib. 2	.20	2.36 2.45	Hexan 95%
thylene glycol monoethyl ether ac-		1.	300 AOAC test, dms., Lt.l ib. 2	2.50 2	2.65	Hexer
etate, tanks, ft. alkl., E lb. Thylene glycol monomethyl ether ac-	.551/2	-	Gentian violet (see Methyl roseanline chloride Geraniol, syn., 90-92%, dms ib ib.	.25	_	Hexel
etate, tanke, frt. alid. E ib. ihylane oxide, tanke f.o.b ib.	.43 .35	.45	nat., 90-92%, dms	.50	-	p-Hex
(thylene trichloride (see Trichloroethylene)			Geranium cil, Moroccan	.00	-	
ucalyptol, NF, dms. Portuguese . kilo.	7.50	1	Bourbon	.00	-	Hexyler

WEEK ENDING OCT. 24, 1986 Glue, bone, extracted, green, jaily-

	Annual Broott Billy.		
	grams, ogs., c.llb.	_	_
	C.L. Co.h B	.86	
95	115 ellygrams, bgs., c.l., f.o.b lb.		_
	135 tellygreme hos of (o.s. the	. <u>78</u>	_
	135 jellygrams, bgs., c.i., (.o.b lb.	.77	-
	164 jellygrams, bgs., c.l., f.o.b lb.	.79	-
	I TOE MANYSTRUTTS, DOS., C.I., LO.H. IN	.87	_
	220 jellygrams, bgs. c.l. f.o.b lb.		_
	Glue, hide,	.83	_
	108 leliugrame has all 4 s.h.		
	108 jellygrams, bgs., t.l., f.o.b lb.	.80	-
	135 lellygrams, bge., t.l., f.o.b lb.	.85	_
	I 194 jeriyarama, bas., t.l., f.o.b., ib	.90	_
	192 jellygrams, bgs., t.l., f.o.b., . , lb.		
	222 influences has all 4 a h	.95	_
	222 jallygrams, bgs., t.l., f.o.blb.	1.00	-
	I 40 Janyarams, Das., El., En h. th.	1.05	-
) 400 jenygrams, bos., til., fob ib	1.10	
	315 jellygrams, bga., t.l., f.o.blb.		~
	347 Jellygrams, bgs., t.l., f.o.b lb.	1.15	-
	370 Johnson S. Ca., L.C. D 10.	1.20	-
	379 jellygrama, bgs., t.l., f.o.b lb.	1.25	_
	f 4 i jenyarama, bas., tl., fob ib	1.30	_
	444 jellygrams, bgs., t.f., f.o.b., . lb.		_
	477 Jellygrams, bgs., t.l., f.o.b., . ib.	1.35	-
_	Ghuarala sala Coura de de la la la la la la la la la la la la la	1.40	-
10	Glutamic acid, 9912% dms., 100-lb.		
	I IDTS. I/T. ANCL. LEG	6.65	_
Ю	Glycerine, nat., refd., USP, CP 991/2%	4103	_
	tanks, divd		
	LISE CD and ODD 1	.891/2	-
	USP, CP, nat. 98%, tanks, divd ib.	.87₩	_
	Syn. 90%, lanks diva	.8914	_
		.91	_
	Glycine (see Aminoacetic acid).	.01	-
6	Giveend gualacolete 400 il. de		
	Glyceryl gualacolate. 100-lb. fib. dms.		
	f.o.b kllo	14.50	_
	Unitroduct actor tagget Hydroxya cattle sectiv		
	Giyoxal 40% soin., bulk, tanks,		
	died dam, bark, talks,		
	divd	.441/2	-
	Grapefruit oil, Fla , dms Rb.	3.00	-
	Calif., dms	3.00	_
	Israeli	3.00	_
	Graphite, amorph, powd., bgs., dms.,	3.00	-
	a abiato minabili bowor oller outs		
	ex whse	.16	.40
	Cryst. 00-20%, DOWG., Dog. dms.		
	I AX WASA IL	30	60
	Graphite, cryst., 90-92%, powd., bgs	30	60
4	drag or when	_	
4	dms. ax whse ib.	.40	.75
4	95-96% powd. bgs. dms., ex		
312	l wnse ih	60	.90
8	Graphite, amorph., cryst., 97% and up.	-	.00
0	powd boe dos as		
	powd., bgs., dms., ex		
	whseb.	.80	1.20
905	Grapinie, nake, No. 1, 90-95%, bos		•
	OMS. ex whee is	.65	.75
065	No. 2, 90-95%, bgs., dms., ex	.02	./3
	when		
	whseb.	.65	.75
) 2 5	O GOOD CORE CHE, Falls & Waxes market re	(port)	
	Greate Of (See Lard Oil).		
60	Gualacol, tech , 500-lb dms., 24,000lb.		
	min to b Mallantan		
	min., f.o.b. Wallingford,		
	Conn	2.70	_
	GURIRCWOOD ON, DITTS	3.75	_
	Guar gum, edible, bgs., c.f., f.o.b.		_
	shin't ot	20	
	ship't.pt	.60	.75
	indust., bgs., high viscosity, c.l.		
	same basis	.50	.85

			Heliotropin, dmsfb.			ı
			i Hemiock of (see Spruce of).	8.00	8.25	
			l Henbana leaves, bis	.56		
			Heptane, indust., tanks, f.o.b. Beau-	.30	-	
			mont, Tex	1.07		
			95%, lanks, f.o.b. Houston,	1.07	-	
		_	Tex	4.40		
G salt. dms., frt. alid. 100% basis ib	. 2.30	-	Heptanoic acid, syn., tanks, f.o.b.	1.18	-	
Gallic ecid, 400-kito lots kik	23,05		i-Hexadecanol, syn., tanks, f.o.b lb.	.65	-	
Garlic oil, dms., Egyptiankik	100.00	110.00	Hexahydrophthalic anhydride, tach.	.4312	-	
Gelatin, edible, 100 AOAC test, dms.			dos III (ob verte o			
I.I.I., dlvd	. 1.50	1.75	dms., Lt.l., f.o.b. works fb.	1.42	-	
125 AOAC test, dms., l.t.f fb.	1.75	1.85	Hexamethylenetetramine, gran. bgs.,			
150 AOAC test, dms., l.t.l lb.	. 1.85	1.95	c.l., t.l., worksb.	.55		
175 AOAC test, dms., i.t.i ib.	. 1.95	2.05	gran. dms., c.l., t.l., works lb.	.59	~	
200 AOAC test, dms., I.I.I ib.		2.15	pdr. bgs., cl., t.L, works lb.	.60	_	
225 AOAC (eat, dms., l.t.l lb.	2.10	2.25	powd. dms, c.l., t.l., works ib.	.63	-	
250 AOAC test, dins., Lt.I Ib.		2.36	Hexane, inquet., janks, works	1.01	1.15	
276 AOAC test, dms., l.t.l lb.	2.30	2.45	95%, tanks, f.o.b. Houston,			
300 AOAC test, dms., Lt.l lb.		2.65	TOX	1.12	_	
Gentian violet (see Methyl roseanline c	hioride).		HIEXBOOL SYD., tanks, f.o. h	.50	_	
Geraniol, syn., 90-92%, dms lb.	5.25	-	i nexyl alcohol, mixed isomers			
nat., 90-92%, dms lb.	3.50	-	lenks	.32		•
syn. 98-98%, dmslb.			i p-Hexyl methacrylate, dma. c.i			
Beranium oil, Moroccen	46.00	- -	I WORKS	.75%		•
Bourbonlb.		-	Hexylene olycol, tanke, divel in	.50		
Chinese	23.00	-	I MOXYMOSOFCKIOI, USP. close. 25. In face		- - -	
Egyptlb.	22.00	-· .	l Of more, irt. alid	30.00		
Turkish (see Palmarosa oli).			Homatropine hydrobromide, USP, 10-	10.00	-	,
leranylacetate, dmsib. nat., dmsib	5.44	6.00	100-oz, lots, bots oz.	10.26	44.00	•
NAC ONS	10.95	- `	Homatropine methylbromide, USP, 10-	10.20		٠,
leranyi formate, syn., dms , . ib. nat,, dms	0.00		250 oz. iota, bots oz.	9.70		٠.
ilisonite, g.p., bulk, c.l., f.o.b, Bo	10.00		I Morenound herb ble	4.7U	10.70	ď.
			Hydrazine hydrale, 85%, t.t., frt.	.25	4.0	٠.,
enlocks seems books	100,00	· -	alid	1.54		10
selects, same basis ton inger, Cochin, bgs. ib. Chinese siced lb.	40	65		1,04	·	
Chinese sites	. 56	20	Hydriodic acid pull 479, 579, p	1.61		• •
forest Chican	36.00	X	Christian Conf. built. 47 4-57 45 Z-			٠,
ingo or, or load	45.00	49.00	Hydroshletyt elechel seele	7,50		
lover decreases NF hors	20,00	40.00	Time of (Ab pale)	1.5 3		4,
formare collision Section suitates	30,00		Janké fa b sevé i	85		• •]
Licensia esiri terih SAM dime in 1. 1 1.		i	Hariotherenia and Joseff Annual Control	60	``(<u>`</u> !'-``	٠,
to be works	` Fri		And a shirt and the out of the	71.2		
somble comis limited and a large by	22	$a = a + a \times 1$	Historia del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del martino del marti	38%	ji⊈ika, s	f^{*}
Chinese sloed binger of, Chinese killo inden killo inden killo inden killo inger oleorasin; NF, bots binger oleorasin; NF, bots binger oleorasin; NF, bots binger oleorasin subtate; inconic acid tech 50% dras, ci. 1, 1, 1, 0, 0, works binger oleo index binger oleopatics.	5 7 7 1	1.2.利力され	TITALISTIC BOID, BURYO, (See Hydrogen C	hioripe).	黄色化 人名	÷,
Outshor On Yoka		Cum A	55-gal dras I.I. int. skd. ib. Hydrodic acid, purif. 479-579, 2- chys. i.o.b. works. ib. Hydrosbietyl albohol. tech., solid. time, cl., i.o.b. zone 1 ib. sante, i.o.b. zone 1 ib. Hydrochloric solid. 48% dras., cl. ti. Hydrochloric solid, arryd (see Hydrogen of	1 2	*	Ş.
October 21 1909	100	"cirman"	Whave wind KELOLLDI		48	77
Y. and D. J. A. Lee, Phys. Lett. B 48, 121 (1997).	~				10 A.4 TOP 114	

Cloves Brazil bb. 2.35 2.40 Crest/se acid, dom., metapera control Cloves, Brazil bb. 2.35 2.40 Crectonic acid, 200-lb. dms., t.L. f.c. dwd.

Madagascar bb. 2.35 2.40 Cryotic syn., buff, o.l., works

CHEMICAL MARKETING REPORTER Octobe

ı					-
			iron, purif., powd., pails, 10-100-b.	1.00	_ }
CHEMIC	7 A		iron oxide, black, syn., bgs., c.l., frt.	.661/2	.76%
CHEMIL	s Li	∖ <mark>B</mark> ≟	iron oxide, brown, syn., bgs., c.l., fri. equaldb.	.68	.781/2
		' li	fron oxide, metallic brown, i.c.i., bgs., frt. equald	.13	.15
PRICES			iron oxide, nat., red., dom., pure, bgs., c.i., worksb.	.275	.40
PNICE)	- 11	kon oxide, veliow	.18 .63	.71
		!	eyn., bgs., c.l., frt. equald lb. fron oxide, buff, nat., dom, bgs., c.l.,		.80
WEEK ENDING OCT. 24	, 1986	} }	t_i., works, lightb. darkb.	.75 .60	-
Hydrochloric acid, 20° Be, tanks,		65.00	other shades, bgs., C.I., Iff.	.50	.55
works, East ton Midwest ton	65.00 60.00	70.00	Isatoic anhydride, bgs., f.o.b. works to. Isoamyl alcohol, 95% tanks, int.	1.40	-
Guil Coast ton West Coast ton	57.00 90.00 68.00	105.00 76.00	Isobomeol. 100 lb. dris lb.	7.25	1.48
22° acid, same basis, East ton Midwest	66.00 63.50	70.00	isobomyi acetate, dmsib. isobutyi acetate, solvent grade, tanks,	.80	1.16
Gulf Coasi ton West Coasi ton	100.00	115.00	frt. alid	.45 .71	.48 -
NOTE: Prices vary and are either freight ized depending on producer and	i location.	aftur adren-	isobutyle/cohof, tanks, dvd b. isobutylene, 99%, tanks, f.o.b.	.29	-
Hydrocortisone acetale, micronized, dms., 25 kilos or more . gram	.70	-	workslb. Isobutyl fsobutyrate, tanks, f.o.b.	.32	-
Hydrocortisone, alcohol, micronized, drs., 25 kilos or more . gram.	.70	- j	worksb. Isobutyl mathacrylate, tanks, clivd. b.	.42½ .87	-
Hydrofluoric acid, arrivd (see Hydrogen Hydrofluoric acid, aqueous, 70%	Mondel	Į	isobutyi phenyiacetate, dms D.	3.10 3.45	3.50
tanks., f.o.b. frt. equald100bs.	43.00	- [isobutyraidehyde, tech., dms., c.L.	.43	
Hydrofluosilick ackf, 15-gal. dms., t.l., works, 30% basiston		210.00	clvdb. tanks, dlvdb.	.35	-
tanks, 100% basis, workston Hydrogen bromide, anhyd. cyls., extra,	190.00	_10.00	Isobutyric acid, dms., c.l., t.l., dlvd b. tanks, same basis	No Price .75	ra
30,000-lbs., f.o.b, workslb. Hydrogenchlorido, anhyd., 50-lb. cyls.,	7.00 85		Isobutyronitrile, dms., c.l., f.o.b. works frt. collect	.84	-
c.i., works ib. 600-b. cyls . c i., same basis ib.	.85 .62	= {	tanks, same basis	.75 5.20	5.60
Hydrogen chloride, anhyd., tube trail- ers, seller's trailer, min.	97	_	isoniazid, powd kilo 1 isonicotinic acid, hydrazine (see isoniazid).	2.00	-
100,000 lbs. a year lb. tube traiers, buyer's trailer lb.	.37 . 27	-	Isononyl alcohol, dms., t. 1	.48 .44	-
Hydrogen chloride enhyd., tanks, works	270.00	-]	Isophorone, tanks divdib. Isophinalic acid, 99%, bulk, f.o.b.,	.81	-
Hydrogen cyanido, IIq., 89.5%, tanks, works	.50	-	Joliet, Ill., min. frt. ald ib. Isophihalonitrile, bgs., t.i., works ib.	.46 2.66	-
Hydrogen fluorido, anhyd., tank cars c i., i.o.b., iri, equaldib.	.6875	- 1	isopropyi acetate, tanke, divo to.	.47	-
Hydrogen peroxide, 35% tech., tanks, works, ft. equald	.2325	-	Isopropyl alcohol, arhyd., 99%, tanks, divdgal.	1.38	-
50% tankcars frt. equald lb. 70%, tankcars frt. equald lb.	.3225 .45	- [refd., 95%, tanks, divd gal. refd., 91%, tanks, divd gal.	1.31 1.25	-
Hydrogen suffide, dq., 99.25% min. sefer's tanks, worksb.	.12	.13	Isopropyl ather, tanks, dlvd	.44 .37	-
170 b. cylinders	2.27	-	Isopropylamine. (see Mono-, DI- or Tri-). Isopropyl myristate, dms., t.i., E k.	1.19	1.50
ers. G.L. t.i., divd lb. tech., dms. c i., divd lb.	2.54 1.95	- 1	llaconic acid, reld, bgs LL lb.	1.45	1.48
Hydroxyacetc acid, tech., 70%, tanks, Belle, W. Va b.	.491/2	-			
Hydroxylammonium sullate, dma., t.i., i.o.b	.83				
p-Hydroxybenzene sulfonic acid (see p- Hydroxybutyl methylcellulose (visc.	Phenoisuli	onic acki).	U		
12,000 cps.) 60 lb. bags, il., cl. 30,000 lb. min., divd., zone	5.46				
Hydroxycliroraliai dimethyl acetal,	2.10	-	J actd, paste, dms., works, 100% ba- stsklio	4.75	_
p-Hydroxydiphenylamine, dms., t.l.,	16.65	-	Japan wax, cs	5.50	5.60
f.o.b. works	4.10 9.40	_	producing point gal. Juniperberry off, Italian kilo 1	55.00 20.00	60.00
pure, dms	13.60 14.80				
syn., drns	9.60 2.07	_ 2.12	V		
Hydroxyethyl methylcelfulose (visc. 5,000 through 45,000 cps.) 50		2.16			
b. bags, Ll., cl., 30,000 lb. min., divd., zone 1 b.		_			
Hydroxypropyl methylcallulose, pre- mium, U.S.P. (visc. 4,000		_	Kaolin, water washed, fully calcined,		البسسا
through 15,000) 50 lb. bags, tl., c.l., 30,000 lb. min., divd.			begs c.l., f.o.b. Georgia ton	255.00	-
zone 1	. 2.87	-	NF pwd., colloidal, bacteria con- trolled, 50 to. bags., 5,000 to.	6.1	
(visc. 50 through 100 cps) 50 to bags, t.l., c.l., 30,000 to)		Ksoln, uncalcined. No. 1 coating, bulk,	.24	-
min., divd., zone 1	. 2.99	-	No. 2 coating ton	94.00 75.00	-
4,000 through 15,000 cps) 50 fb. bags, t.l., c.l., 30,000 fb. in.	0		No. 3 coatington	73.00 70.00	-
divd., zone 1	2.17	-	Mer, gen, purpose, same ba- siston	58.00	_
50 through 100 cps) 50 to bags, t.l., c.l., 30,000 fb. min). 		detarminated water washed, uncal- cined paint grade 1 micron		
divd., zone 1). 2.64 8)	-	avg., sama basis lon dry-grd. airfloated soft, same ba-	182.00	-
Hypophosphorous acid, purif., 509 dms., c.l., works	X6.	_	stston. Karaya gum, No. 1, powd., bbisib.	60.00 2.25	-
			No. 2, powd., bbtsb. Kota nuts, bgsb.	1.95 .50	- .53
	_		. 🛮	•	
ichthammol. NF. 200-kilo dms) Iminodiacetic ackl, 96% min., dms	b. 4.29	4.50	`∖ ≣		
c.l., t.l., works	b. 3.00				
Inositol, 50-kilo dms., 1000 kilos mors, t.o.b, works k	Or		Lacquer dituent petroleum, 140F 200F. b.r., Lo., New Jersey		7
lodine, crude, dims	# 0 13.5	0 18.00	and New York gai.	1.25 1.29	Ξ
lodochlorhydroxyquin, USP, XVI 5 kilo dins., 100-499 kilos, i	0-	14.00	Lacquer dituent, petroleum 200F 240F. b.c. tankoara New		
iodoform, NF, dans., 300-fbs., f.o.	io. 35.0 .b.	-	York and New Jersey gat, Houston, Tex	1.20 1.12	1.25
works	Jb. 24.0 Jb. 18.2	0 -	Lactic acid, food grade 68%, t.o., f.o.b. Works	1.06	_
b-longer root whole, has	b. 13.1 b. 25.0	0 -	1 lech. BB%. Lo. frt. equeld b.	.62	-
irish mose, bleached, prime	5,	5 .60	Lactose, edible, rag. bgs., c.i.,	99	- .28
WNGB	·			-	·40
iron blue, alkali-resistant, bgs., Lo ton lots, div. E	.l., 16. 2.7		Lactose, USP, reg. dms., c.l., t.l., frt.		
iron blue, alkali-resistani, bos., j.o	. l., 16. 2.7 18.	0 -	Lactose, USP, reg. dms., c.l., t.l., frt. equaldb., Lactose, USP, sprsy dried, bgs., ti., frt. equaldb.	.65	.69

						_
	ake C, red toner. (red 53) bbls., frt.	0		Lithium hydride, c.l., t.l., divd. 10,000 or		-
	englis arrhyd. cosmetic. 400-lb.	5.70	1.25	inore	23.50	•
	phermaceutical, 400-lb, dms.		1.20	Lithium hypochlorite, c.l., t.l., works.lb. Lithium metal, 1,000-lb. lots or more.	1.83 1.07	:
١	works.	1.15 1.08	113	divdb. Lithium nitrale, tech., dms., 100-ib.	22.70	
	and (See Oils, Fats & Waxes marke) report.	.)	''"	lots	3.25	
l l	ard off, No. 7, dms., c.r., 1.0.0	.34 .28	ļ	Lithium sulfate, anhydrous, i.i. divd. ib. Lithol red toner, barium, dms., frt.	1.01 3.09	:
	ard oil, extra, winter-strained, cris	.41	-	alid	3.27	
ł	tanks, same basislb. prime, burning, dms., c.l., same ba-	.33	_	Lithol rubine toner (red 57), resinated, dms., frt. alid	350 550	•
	als, Chicago	.43	<u> </u>	Litsea/cubeba oil, dms lb. Locust bean gum, powd., bgs, lb.	2.50 6.00	•
ı	MOLE: 900 Mil' 180' i Mic Higher events and	.35 xas, 2c., a	nd West	2,4-Lutidine, dms., t.l., frt. equald. kilo Lycopodium, 50-lb. dms	5.75 8.00	675
	Coast, 3c. higher. Laurel (saves, Turkish	3.00	3,10	t-Lysine monohydrochloride, feed grade, 10,000 lbs. divd lb.	1.35	10,00
- 6 1	aurent's acid, drums, f.o.b ib. auric acid, comi., pure bgs., c.i ib.	3.85 .65	.71		140	10
	auric aldehyde (aldehyde C-12). dmsb.	7.75	-			
	n-Lauryl methacrylate, dms., c.l., t.l., works,b.	1.72	-	M		
	Lavandin oll, Abrialis, 30-32%, dms. lb. Lavandar flowers, ord lb.	6.50 .65 .80	.75 .90	FAT		
1	medium, bis	1.10	1.19	Mace, East Indian, siftings, ib.	4.95	550
	Lavander flower oil, NF, Franch,		13.00 14.00	Siøuw #2b. Magnesia, tech., light, neoprene-	5.60	675
1	Lead acetate, puril., flake. 400-lb.	.46	-	grade, bgs., c.l., t.l., works lb. Magnesia, syn., tech., chemical-	.75	þ
1	dms., worksb. tech., flake, t.l., 400lb. dms.,	.37	_	grado, bulk, c.l., t.l. workslon	330.00	
ļ	worksib. Lead blue, basic, suffete, bbls., c.l.,	.87	_	bags, c.l., t.l., same basis ton deadburned. bulk, same ba-	365.00	•
1	ship, t. pt., f.o.b		_	siston	392.00 409.00	:
-	Lead chloride, 400-lb. dms., works. lb. Lead dloxide, tech., powd., 200-lb.	.66	.70	Magnesia nat. tech heavy,85%,150 mesh bulk, c.l., t.l., f.o.b.		
1	dms., t.i., works ib. Lead Ruoborate, liq. conc., dms., t.i.,	.65	-	Nev	265.00	:
١	works, frt. equatd b. Lead metal, divd b.	.24	-	Magnesium bromide, 80-lb. dms., hex- shydrate	2.60	
١	Lead monosificate, milled, bgs., c.l., f.g.b. works	.58½ .57½	-	Magnesium carbonate, light, tech., bgs., c.l., t.l., works, frt.		
-	coarse, bgs., c.l., same basis b. Lead naphthenate liq., 24% Pb. dms., frt. alld	.93	_	equaldb. USP, lite bgs., c.l., same basisb.	74	
Į	Lead nitrate tech., cryst., 400-lb. dms., t.l., works	.321/2	_	USP, heavy, ogs., c.l., same basis lb. Magnesium chloride, anhyd., 92%.		•
	Lead peroxide (see Lead dioxide). Lead red, 95% Pb ₃ O ₄ , or less, bgs. c.l.,			liake or peoble dms., c.i. worksib	17	A)
-	works	.37	-	Magnesium chloride, hydrous, 99% flake, bgs., c.i., workslb	14	in -
\ 	works	.37%	-	Magnesium gluconate, 100-lb. dms	. 42	5 .
١	basisib. Lead sificate (see Lead, white, basic silicat	.37½ te).	.401/2	Magnesium hydroxide, NF, powd. dms., c.l., t.l., works frt	٠.	A .
- (Lead silicochromate, bgs., c.i., worksb.	.35	_	equald		
	Lead suifate (see Lead, blue, basic suifa basic suifate)	ate and Le	ad, white,	Magnesium metal, 99.8%, ingots 10,000-lb. lots or more. I.o.b		•
	Lead, white, basic carbonate, bgs., c.t., frt. alidb.	.62	-	Freeport, Tex	. 1.0	
	Lead, white, basic, silicate, bgs., c.i., same basisb.	.87	_	Magnesium nitrate, tech., flake. 250	٠.	2
	Lead, white, basic sulfate, bgs., c.l., same basis	.85		Magnesiumoxide, USP, light, bgs., c.l works, irt. equald it		5
	Lecithin, edible, tech., bleached, non- ret. dms., t.c.l., works ib.	.36	_	heavy, dms., c.l., same basis lt Magnesium oxide, lech. (see Magnes	. '*	И
	unbleached non-ret. dms., i.c.i., same basisb.	.34		Magnesium phosphate, tribasic, teci 60-ib. bgs., I.o.b.	1,)0
	edible, tech. bleached, non-ret. drns.,tl.,worksb.	.28	-	Magnesium silicate (see Talc). Magnesium silicolluoride, bgs., c.l., t	ı.	
	unbleached, non-ret., dms., t.l., same basisb.	.26		works. Magnesium stograte, bulk, t.l.). ·	1645 85
	Lemon off, Argentina kilo Brezil	16.00 9.00		Magnesium sulfate 10% Mg. (epso	.,	
	Calif., USP, dms fb. liailan lb.	8.50 12.50	9.60	works	b	13
	Lemongrass off, Indian, drnskilo Guatematan, drnslb.	11.25 2.25	-	USP, cryst., bgs., same basis	b	131/2 141/2
_	di-Leucine, dms., 1 kijo works kijo Licorice root, whole, bis	80.00 .40	90.00 .50	Magnesium suitate, 17% my. (2)	h.	.80
	gran, bisib.	.70 .95	.90	bgs.t.l., works	s. 1	26 26
	Lignosulfonate (see under Ammonium fonate).	or Sociun	n Ilgnin Sul	Magnesium sulfate, annydrous, C	5. 1.	76
	Lime, chemical, pebble (quicklime), bulk, 50,000 lbs., works, f.o.b.	00.00	45.00	Mognesium sulfate trinydrate, too	b.	.45
	piente, ton Lime, chemical, hydrated, bulk, same	39.00	45.00 E0.00	Magnosium irisilicate, USP, powo.,	ib.	.38
	basis	46.00 54.00	50.00 57.00	USP, micronized power, unit)., [b	,83 ,62
	Lime, Nf., purif., 100-lb. dma lb. Lime of, dist., Mexican, dms lb. Haltlan, dist., dms lb.	.69 6.00 6.50	-	Molathion, tech., dms., 11., works.	ĎÕ.	.20
	expressed, drasib.	17.50	=	kilos, I.O.D.	09 2	.80
	d-Limonena, dmskito Linalogi ex bois de rosa oft, dmsib	.70 6.35	.85	Maleic anhydride, pgs., t.i., worker	ib.	.55 53
	syn., 96-100% dms., 1.o.b. works lb. Linslool oxide, syn., 55-asi, dm lb.	2.93 7.75	-	Maio acid, purif, and lood grades.	i).	. 81 ;
	Linelyl acetate ex bols de rose oil, 90- 92%, dms	18.00	21.00	Lipedade di fess Tennenne di Iles	a ile	. 44
3	Linelyt benzoate, syn., 55-gal, dys. lb.	3.10 8.00	-	Mandelic acid, dms., 1,000 k	16.	100 13%
	Linalyi cinnamate, syn., 55-gal.	59.85	_	Manganese acetate, dihydrate, dri divd	b . ,	.48 .68
	Linalyi isobutyrate, syn., 55-gal, dmsib.	7.75	8.50	Manganese porate printing and	b.	.00
	Lindane, 20% formulation, dms.	8.50	8.55	Manganese Cardonale 20.0	XO-,	05
	99.9% tech., dms., t.i.		-	ib. lots or more, works.	18. ,	610
	Linglyi propionate, syn., 55-gal.		. ~	20,000-10. Role of Africari, 9	rd.	
	Linden flowers with leaves ble	7.90	 .85	All de la literatura de la la la la la la la la la la la la la	ton ╩	100 100
	Without leaves, bis	washed was	1.15 ort).	84% MINOs, SEITHO DESIGNATION	al-	
25 .	Lineago oli fatty acid, dist., dos	vket repor	t) .67	(ery grade, so to works.	. b.	70
•	Litherge, com.l., powd., bos., o.l.,	.53	.62	CUGULCHI IRILITA Aranai	. D	A
	Lithum bromide, enhyd, dms. ton	.361	.60	Manganese globolistics.	D D	.60 .55
•	60h. same basis.	. 6.27	=	Manganese hypophosphile, NF, d	me Ib.	N.
28	Lithium carbonate, powd., bgs., c.l., t.l., divd		_	Mannanese metel, electrolytic, N	1	营
69	divdib	3.32	. · <u>-</u>	dma. c.l., works.	in it	
•	Lithum fluoride, dms., c.l., t.l., dwd. lb	2.94 4.90	, <u> </u>	Manganese nagnmenen, and discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the discounting the disco		, Ed
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Manganese resinate, fused, 312% Mn. drist, frt. ald	.3414 .42	-	Met 4.4
Manganese editate, 78% 78% MnSO.			""
25 kilo bgs., bu-ton cars, civo.	280.00 245.00	-	Med
bulk, hopper cars, same basis ton Manganese sulfate, 28% Mn, gran., bgs.,c.l.,t.l., works ton	330.00	_	Met
Manganese talete, Rq., 676 Mir. Gille., D.	.60	-	Met Met
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Egyptian b. Egyptian b. MET (see 2-Mercaptobenzothiazole). WET8 (see Mercaptobenzothiazy) disulting (see Mercaptobenzothiazy) disulting (see Mercaptobenzothiazy) disulting (see Mercaptobenzothiazole).	.61	.82	p-M Met Mic
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Melemine-formaldehyde resin, g.p., t.l. int. elid	.65	.60	n w
uenhaden oil, crude, tanks, works At-	.461/2		Mic
lantic Cosst	.11 .12	Ξ	ł
recular crystals, spot, cs.,	6.75	7.50	Min
bulkb. syn., USP, recemic, 100-450 lbs. lb. 2-Mercaptobenzothlazole, bgs., t.l.,	9.00 1.25	- 1.55	l
Works, irt. and	1.33	1.66	USF
Herourio chioride Nº, gram., powd., 100-b. dms., f.o.b. worksib.	6.50	-	Mine
Mercurio oxide, red, purif., 100-lb. dms., i.o.b. worksb. tech., 100-fb. dms., same ba-	7.00	7.25	Mine
els	5.50	7.00	
tech., 100-lb. dms., same ba-	7.00 5.50	7.25 7.50	Moly Moly
Alercurous chloride (see Caforner). Mercury, ammoniated (see White precipt			Mol
Methacrytic acid. glacial, 99%, drns.,	.46	-	te
Methacytic scid, glecial, 99%, drns., t.i., frt. equald	.87 .78	Ξ	Moly Mor
d-Methemphetemine hydrochloride,	12.00	16.00	Widi
dmab. Methanol, syn., barges, f.o.b. producing point, Guif	4.50	7.00	Mon
Coast gal, Vethenamine free Heyamothylanetetran	.28 nine).	-	fo
Mithiorine hydroxyanalogue, dry, 88% activity i.i., frt. alidb. Ilquid, 88% activity, t.i. frt.	.86	-	Mon
d-Methionine (see Racemethicuma)	.68	-	Mon
Methoxychior, 50% wettable powder, dealers, dms ib. Mathyl abletate, non-ret. dms., c.t.	2.05	-	Mon Mon
dvd, E	9.40	-	Mon
Malhyl acatogostota East stud	10.00	-	Mon
Methyl scrylate, tanks, others	.85 66.00	-	les Mon
Methylamyl sicohol, tanks, clivdib.	.65	-	lai
Methyl anthranilate, tech., dms.,	.54V≥ 1.41	 2.65	Mon
Methylberzoets, dms., t.i. b. Methylberzoets, dms., t.i. b. 99.3%, perl. grade, dms., t.i. b. Manyl bronstde, det., tanks., 140,000 Bs. min. fr. add	.25 1. 6 5	-	
Methylcelulose, premium, USP (visc	.564	-	Mon
400 Brough 4,000 cps) 50 lb. begs, it, -3,0,000 lb., min., tryd, zone i			Mon
Methylomiulose, premium USP (visc. 16 cps) 50 lb. bage, tl., cl.,	2.73	-	Mon
Melhyscellulose, (viec. 400 through	2.85	-	Mon
30,000 be., divd., zone 1., b. Hethytoskilose (Mao. 15 to 25 cps) 50 b. begs. (I., c) 30,000	2.24	-	ref Morp
min., alvd., zone 1 ib.	2.52	_	Morra Morra
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temperance pure dres	7,30 45.00 (reben)	Ξ.,	Myrri
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bbis., same basisib 4.4,-Methylene dianiline (p.p-di		5.20	Naphthol arylide red toner deep shedes, bbls					
I aminodibhenyi meth.me	١		: "APILOHOUGO, CXC19	9.50 7.75	-	NAUELL	7	
crude, dma., t.l., (.o.b ib purif., flake, same basis ib	5.00	-	2-Naphthol-3,6-disetonic acid, disedium 1-Naphthol-5-sulfonic acid (see L. acid).		l Sait).	CHEMI		
4.4di-socyanate	te (see dipher	ylmethane	1-Naphthol-5-suifonic 5-amino acid (see Naphthylamine autoric mixed acid (see	S ecid). Cleve's sci	an.		y F	
Methylene Chloride, tanks, 4,000 gal.			works. 1.0.0.	0.40		IRRIAF		
	-h	-	2-Nachthylamine-4.8 disulfonic acid (see La	urent's aci	d).	LKI(: E)		
Methylphenylpryszolone (see 1- Pher 5).		yrazolone-	T SOUTH INTERNATIONAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY	blas scid).	eciaj.	PRICES		
a-Methylstyrene, f.o.b. shipping ptib p-Methylnaphthalene, bulk, works, ga	4 00	-	Neatsfoot oil, 20°F, t.l., f.o.b. works dmsb.	.52	-			I
Methylthionine chloride (see Methylen Mica, dry-grd., joint cement, plastic, 6	a bhuat	-	tanks, f.o.b. works b. 30°F, t.l., f.o.b. works b.	.47 .52	. :	WEEK ENDING OCT. 2	4, 1986	
(IP., DGS., C.I., Works. Jr	ስንነራ	_	40°F, dms., t.l., f.o.b. works	.44 .48	.49	Oleum (see Sulfuric sold, furning).		
dry-grd., roofing, 20 to 80 mesh worksb	07	_	tanks, f.o.b. worksib. Delivered prices apply on shipments w	90		Olivanum gum, tears, bgs	2.10 8.00	-
paint or seq., wet-grd., 325-mesh	1016	_	Trimacelonia, Pa.; Other areas, 1	Van hinhar	; Texas, 2¢.	Italian B-type	5.40 12.00	5 <u>.50</u>
rubber, bgs., c.l., f.o.b. works lb wallpaper, bgs., c.l., f.o.b. works lb	1034	Ξ	higher and West Coast 3c. high Neomycin sulfate, USP, non-sterile,	er.		20 mesh, works ton	15.00	<u>-</u>
MICTOCTYSTAINTE WAX, petroleum, cost		-	dma., 50-kilo. tota, activity ba- sia, divdkilo.	75.00	-	Oplum, USP, gran. powd. 25-kilo lotskilo		_
ing grades, FDA, tanks worksto	2814	.461/2	divdb	.522	_	I VISADO OII. EXDressed, USP. Calif.		-
lamhating grades, FDA, tanks worksib	4100	.48	powder, fieke, bgs. t.i., dlvd. b. Nerol, tech., dms. lb.	.598 5,30	5.75	dms., f.o.b. plant b. expressed Valencia, dms b.		1.20
tanks, refy	2 30	_	pert. orade, dms	A An	5.00	Calif., dist., cns. f.o.b. plant	.40 .50	.55
65-76 vis., tanks, refy ga 80-90 vis., tanks, refy ga	9 49	Ξ	I MATCHOOLSYN, DA-GAL GME B-	7.05	-	West Indian, bitter, NF X, ons	1.20	-
1 140-100 VIB., tanks, talv. da	9 59	-	Nercin, Bromelin kilo Niecinamide, USP, t.i., dms. kilo	7.22 8.00	-	Orange peel, bitter, Haitlan bisb.	13.00 38.	_
USP 180-190 vis., tanks, refyga 200-210 vis., tanks, refyga	. 2 FA	=	Niecin NF, dms., 5,000 kilos or more, divd. kilo	7.60	_	Oregano, Greece, 30M	2.80 2.80	=
340-350 vis., tarıks, refy ga Mineral spirits, petroleum, odorless		-	basis	5.10	5.50	Mexico	1.05	Ξ.
tanka, New Jersey ga Houston, Tex	· 1.83	1.88 1.79	Nickel acetate, dms., 5,000-lbs. to t.l., divd. E			Oma root, Florentine, bis b.	4.00	-
Mineral spirits, petroleum, regular tanks, New Jersey gal			I Mickel Carbonate, drive., bds., 5,000-	1.82	-	powd., bbls., bxsb.	4.60 3.00	5.00
I MOUSTON, Tex	1 41	1.49 1.43	bs. to t.i., divd. E	3.46	-	powd., bbls., bxs	4.60 3.25	5.00 3.35
Molybdate orange, bbis ib Molybdenum metal, com.i., powd.	_	1.95	Nickel flyoborate, kg. conc., drns., t.l.	1.19	-	b-Oxynaphtholo soid dms. works	.44	_
99.8%, dms., works	. 13.50	-	Nickel metal, electro cathodes, ca.	1.25	-	Oxyquinoline base, pure, 1,000 bs.,	2.55	-
works, 24,000 lbs. or more.lb tech., chamical, dms., 24,000 lbs. o	. 5.25	-	worksb. Nickel nitrate, dms., bgs., t.l., divd.	3.45	-	oxyquinoline suifate, 100 ibs. frt.	8.00	-
more, basis,	. 2.65	2.85	E	1.18	-	alidb.	4.00	
tech, metallurgical, dms. same basis, ib Molybdic acid (See Ammonium Dimoly	trdaloi	2.85	D. lots. f.o.b. works ib	2.60				
Monoammonium phosphate, fert grade, min. 13% N. 52% P			Nickel sulfate, bgs., t.l., dlvd. Elb. Nicotinic scid (see Niscin).	.80	.90			
Durk, C.I., I.O.b. Fig.	155.00	_	Nitric scid. 36° Bs., 38°Bs., 40°Bs.					
Monoammonium phosphate, tech. bgs., c.i., t.i., works, frt			42°Be. tanks, c.l., works NF, 100% basis ton	195.00	_			
equald	64.00	-	941/1% to 98% HNO ₃ , tanks, works, 100% basis ton		_	Palladium metal, works Troy-oz	124.00	
SI8	. 59.25	-	O-Nitrosoffine, flake, dms., t.i.		•	Paim oil, (see Oils, Fata & Waxea Mark	et Reporti	
Mono-tert-butyl-m-cresol, butk, t.l. , (b) Monobutylamine, bulk, divd	98	1.00	worksb. molten, refd., tanks, worksb.	1.51 1.44	-	Palmoli acid, dbi-dist. dms	30	• -
Monochloroscetic acid, purif. (see Chil Monochlorobenzene, tanks, f.o.b ib	oroacetic acid	i, mono).	molten, tech., works b. o-Nitroanline, orange toner, bgs., frt.		-	a.d., dms	35	.45
Monoethanolamine, tanks, frt. alid Eb		.48	p-Nitroanline, dms., c.i., t.i., 30.000 lb.	1.90	-	Paim kernel oil, bulk, c.i.f., U.S.	18\	ત્ર .1 9 ધ
Monoethylamine, 70% aqueous tanks	_	.40	min., works	1.63	=	Palmarosa oli, indian dmskii Palmitio acid, 90%, tech., bagsid	36.00	
frt. prepsid, 100% basis ib anhyd., tanks, same basis jb	.92	Ξ	Nitrobenzene, tanks, f.o.b lb. o-Nitrochlorobenzene, dms., t.l., c.l.,	.39	.34	tanks Papaverine hydrochloride, NF powd.	81	<u>-</u>
Monoisopropanolamine, dms., c.i., frt alid. E	76	-	tanks, same basis	.82 .74	-	Imp. dulk	66.00	-
lanks, same basisib Monoisopropylamine, anhyd., dms.	.66	-	2-Nitro-p-cresol, tech., dms., t.l., frt.		-	I Spanish, 110 AU bos	90	Ξ
c.i., iri. prepaid ib tanks, same basis ib	.79	-	alid	1.75 2.60	=	Paraffin, fully-refd., 127-130 F., ASTM, tanks, refy	.29	.35
Monomethylamine, anhyd., tanks, con tained basis frt, equald jb	•		Nitrogen solutions, direct application, over 32% N, and mgf. type,			130-135 F., ASTM, tanks, refy. 140-145 F., ASTM, tanks, refy.	.33W .35	.411/4
25% soln., tanks, irt. alid. 100%)	-	worksunit-fon, direct application, 19-32% Nunit-ton,	1.20	-	150-155 F., ASTM, tanks, refy. slack wax, 8% oil, tanks refy	.41W .19	<u>.48</u>
basisib 40-60% soin., tanks, frt. equald.		-	Nunit-ton.	1.28	1.46	12% of, tanks rafy	.21 .16	=
100% basisib. Monopotasskim glutamate, dms., 990	.631/2	-	esed, bulk, f.o.b. Chicagounitton.	4.10	_	AMP temperatures are an arbitrary 3F Paraformaldehyde, 91%, flake, bgs.	higher than	ASTP,
fb. or more, frt. elfd ib. Monosodium giutamate, 50-fb. bge.	2.60	-	NOTE: Price is per unit NH, plus \$1, pe	runit a.p.ø	. bulk, f.o.b.	O.l., t.l., divdb.	.294 2982.	=
c.l., t.l., divdib. 100-ib. druma, c.i., t.l., divdib	.76	.80	Nitrogenous tankage, processed, bulk, per unit-ton NH ₃ , f.o.b. Carrolivile, Wisc unit ton			96%, powd., bgs., c.t., t.L divd. ib. Persidehyde, tech., 96%, 55-gal. dms., t.l., divd. E ib.	.78Vz	
Monosodium phosphate (see Sodium)	hosphale, mo		ville, Wiscunit ton	7.00	-	tanke, divd. E	.58%	
Montan wax, crude, imp., German . ib. dom., Calif., bgs., c.l., t.l., f.o.b.		.67	f.o.b. Forbes, Me unit ton expended, bulk, c.l., per unit-ton N, f.o.b. Forrestdate, R.I. unit ton	8.75	-	Parathion methyl (see Methyl parathion) Para toner red, bols.	1.76	-
shipt.ptb. refd., dom. Calif., same basisib. Morphine alkaloid, NF, 25 k lots kild	.81	-	Nitromethane, orns., t.l., divd. E Ib.	8.35 2.37	Ξ	I chiorinated (red.4) kne 35	3.75	
Morphine aikaloki, NF, 25 k lots kiid Morphine sulfate, USP, 25 k lots kiid	1018,00 850.00	-	o-Nitrophenol, dms., f.o.b. works ib. p-Nitrophenol, dms., o.i., f.o.b.	1.00	-	Patchouli oil, Indonesian., dmakilo Patchouli oil, Chinesekilo	18.50 19.00	20.00 20.00
Morpholine, dms., c.l., frt, elid. E lb. tanks, frt, elid., E	1.02	-	worksib. 2-Nitropropane, tanks, frt. elid. E ib.	1.06 .55	1.45	Peach kernel oil, USP (see Apricot kerne Peacut meal (see Oils, Fats & Wexea m	urket necont	3.
Muriatic acid (see Hydrochloric acid). Musk. syn., ambret(e, 25-lb. cos ib.	8.00	7.00	m-Nitrotoluene, tech., dms., frt. alid. ib. o-Nitrotoluene, dms., c.l., f.o.b jb.	1.16 .85	=	Peotin dom., NF, citrus, powd., 100-	et report).	
Musk. syn., ketone, dms, lb.	10.75 3.60	-	p-Nitrotoluene, tech. dms., c.l.,	.48	.57	Pelergonic acid, net., tanks, min, frt.	3.30	3.70
Musk. syn., xylol, dms	te).		works	.83 .70	.85	epd	.70 .70	- -
Mustard seed, Brown No. 1 lb., Canadian No. 1 Yellow lb.,	.22 .23	-	Nonyiphenol, tanks, f.o.b. E. of Rock- les, min. frt. alld	.49	.531/2	Penicilin, potassium, non-sterile, 200- billion-unit lots billionunita	25.00	30.00
Oriental No. 1 bgslb, Myrcia oii (see Bay oil).	,22		Noraphadrine hydrochloride (see Phen			Penicifin, proceine, sterile 50- billion- unit lota, bulk billion units.	38.00	-
Myristio acid, comi., pure, t.i., bgs lb., tankslb.	1.30 1,12		directionide) Nutmeg of, dist., East Indian, NF,	27.00	28.50	Pennyroyal oil, drns	5.90	<u>-</u>
Myristica oli (see Nutmeg oli). Myrrin gum, bgs		_	dmakilo Nutmegs, East Indian, wholeib.			f.o.b. Wichita, Ken. b. Pentaerythritol, tech., bgs., o.i., f.o.b.,	.55	-
					· · · · ·	frt. eld	.71	.72
		;		. '		I INDONTAGIVININON.	- whether	Application who
						Pentserythritol triecrylate, t.l. dms., i.o.b. worke,ib.	1.50	~ .
		· .]				fri. ald	7.00	_
						ormore divi	14.00	_ / : :
Nachtha, high solvency (see Solvent ha Nachtha, petroleum, cleaners (see Clea	chtha, petrok vac's nachtha	ium).	Ochre (see iron oxide, yellow, nat.) Ocotse cymberum oli dine kilo	5.00	[Pentylene tetrazor, NF, dms., 200-kilo	32.00	
Naphtha, VM&P, petroleum, tanka, New Jersey and New York-		1	1-Octodes connected with the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	.431/2	. = 1	Papper, black, Grezillan, bgs. , (b).	2.28 2.30	
1.1.2.111111111111111111111111111111111	1.29 1.20	1.34	I-Octanol, syn., tanks, f.o.b., b. n-Octane, 97% min., tanks, f.o.b.	.70		Malabar, Ogs	2.28 2.35	_
Houston, Tex	. 22		Octyl alcohol, perfumer's grade, bots	8.25	*	Heimen has	1.00	
		_	COS	1:40	1.75	Ling, bgs. B. Indian, S-4, bgs. Bt. Pakistan, ct.ndiours, bgs. Ib.	76 70	医唇管皮膜
Grace, parks, works	.231/2	804	n-Cotyl, n-decyl phthalate, tanka. dvd. tert-Cotylamine, dma., c.l., t.l., works	.3314	97	Pakistan, dundicuts, bgs	.43	
	. 60	3214	Catylphanol, molton, t.o.,	72	.78½	Pepper, witte, Mantok, Ogs. b. Peppermint leaves, Imp., dms. b. Peppermint oil, Madres: b. Millerente	3.05 2.65	
Naphthalene, reid, balls, flakes, whole aniers, jobbers, dms, works.	.68	.77	Orticing of, liq. done	40	1/092	Midwest	14.00 15.00 11.00	
Nambukania sala Amula ludik Wilkiki.	18	1.00	Cleio scit. db. dist., (white), dms, lb.	,82 ,46	.59 .44	Yakima	8.00	
refined, 220 acid, serrie base, i, to e-Naphthol, provind, ones, L. chvd. ic. b-Naphthol, fach. filke, 80-b, bgs., o.l.	18		Chero sport, day - ches, (write), drys io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io io. io	,88 ,49 ,35	#	syn., dins. f.o.b, Works lo. Brazillan lato Chinese kilo	7.00 8.50	9.00
b-Naphthol, ech. filike, 80-b, bgs., o.l., works	1.10	17 m 12		.35	/ [4]	Chinese kilo	8.00	建设建设设施
	P 2 1 2 2 2	144	October 97, 1986	2.00	THEMOOA	WMARKETING REPORTS	\$	45
	1977年				MANAGE A			30/2013

	والمناف والمراجعة فأدام المراجعة والمراجعة		
<u>-</u> ult).	CHEMIC	CA	
- 1).	PRICES		
=	WEEK ENDING OCT. 24	, 1986	
.49	Oleum (see Sulfuric sold, furning). Olipanum gum, lears, bgs	2.10	_
radiue of exas, 2¢.	Olive oil, edible, Spanish, dms gal. Italian B-type	8.00 5.40	5.50
PARQ, 2V.	20 mesh. works ton	12.00 15.00 20.00	Ξ
-	Opium, USP, grøn, powd. 25-kilo	125.00	_
-	Orange oil, expressed, USP, Calif., dms., (.o.b. plant	1.20 1.00	1.20
5.75 5.00	Calif., dist., ons. f.o.b. plant	.40 .50	.55
-	West Indian, bitter, NF X, ons., dwsb.	1.20 13.00	-
-	Orange peer, bater, Haritan bis	.38 2.80	Ξ
5.50	Turkey	2.80 1.05	=
-	Orda root, Florentine, bls. b. powd., bbls., bxs. b.	35.00 4.00 4.60	5.00
-	powd. bbls. bss	3.00 4.60	5.00
-	Ouricury wax, reld., pure, bgs b. Oxalic scid, bgs., c.i., works fb. b-Oxynaphthoic sold dms. works,	3.28 .44	3.36
-	Oxyguinoline base, pune, 1,000 ha.	2.65	-
-	frt. abd	8.00 4.00	-
_		7.00	
.90	P		
-	Palladium metal, works Troy-oz.	134.00	
-	Palmoli, (see Clis, Pate & Waxes Marke Palmoli edd, chi-dist. dms ib.	t Report) .31/2	_
=	tanksb. s.d. dmsb. tanksb.	.30 .42 .35	.45
-	Palm Kernel OI, bulk, c.i.f., U.S.	.181	.1914
- - .34	Palmarosa oli, Indian dms	36.00 .53 .51	-
-	I Denovorino hurbachinda AIC count	56.00	- -
-	Imp. duik	.80 .90	-
-	130-135 F., ASTM, tanks, rety.	.29 .33%	.35 .39
-	140-145 F., ASTM, tanks, refy. 150-155 F., ASTM, tanks, refy. slack wax, 8% oil, tanks refy	.35 .41%	.41 V± .46
1.46	12% oil, tanks refy 20% oil, tanks refy AMP temperatures are an arbitrary 3F h	.19 .21 .16	Ξ
 .tk, f.o.b.	Paraformaldenyos, 91%, flake, bos.	lgher than / 29%	ASTP,
un, j.c.o.	o.l., t.l., dividb. 95%, powd., bgs., c.t., t.l. divid. lb. Peraldehyde, tech., 98%, 55-gel. dms.,	.391/2	Ξ
-	(i.i., divd. E	.761⁄± .581⁄± 1.76	=
_	Parathion methyl (see Methyl parathion). Pera toner red, bbls. chlorinated, (red 4) kgs	3.76	_
=	Patchouli oil, indonesian., dima kilo Patchouli oil Chinese	3.76 18.50	20.00
1.45	Peach kernel oil, USP (see Apricot kernel Peanut meal (see Ots, Fats & Waxes mar Paanut oil (see Ots, Fats & Waxes marke	19.00 oli). ket report).	20.00
- .57	Partition (866 Ols, Fate & Waxee marke Peotin dom, NF, citrus, powd., 100- kilo lots dvd b.	t report). 3,30	
.85	alid.	.70	3.70
531/2	eyn., tenks, f.o.b. frt. elidb. Penicilin, potassium, non-sterile, 200- bfillon-unit lotg billionunits	.70 25.00	30.00
ine hy-	Penicifin, proceine, sterile 50- billion- unit iota, bulk billion units.	38.00	~
8.50	Pentachlorophenol, 50-lb. bgs., t.f.,	5.90 .65	_
	Pentaerythritol, de-and tri-leomers (see I	.71	- .72
	Pentaerythritol, di- end tri-isomera (see I Tripentaerythritol). Pentaerythritol triecrylate, t.i. dms.	Dipentaaryt	hritol and
	Pentobarbital dms. 100 lbs. or more.	1.50	. ~ :
	Pantobarbital-socium dma. 100 ibe	7.00	-
-	or more, divid	14.00 32.00	
٠ . ا	Pepper, black, Breztlan, bgs jb.	2.28	

CHEMICAL MARKETING REPORTER

CH	EM	ICA	L
	ICE	S	

			والمرافعة والمراوع والمراوع والمراوع والمراوع والمراوع والمراوع والمراوع والمراوع والمراوع والمراوع			Potassium bichromate, gran., 400-lb.		
A	\ A		Phthalocyanine blue toner, water dis- persable, bbis., same ba-			dms., c.l., t.l., W0/K8, 10.	.48	
CHEMIC	1 A		eiaib.	7.05	7.75	Potassium bifluoride, tech., drns., t.l., works., frt. equaldlb.	.45	
IL-PIPMIL	_1		Phihatocyanine green toner, ali grades, obis., frt. alid. E. of Rock-			Potestim bitartrate, NF, gran., powd.,	.90	1
·VIILIIIIV	7 F		les	8.10	10.10	bgs		
PRICES			Phthalocyanine green toner, resinated, bbis., same basis ib.	7.45	9.20	100-1,000 lbs., works ID.	18.00	20
IDDICEC		1	Phthalvisuifacetamide, dms., 500- kilo	6.61	_	Potassium bromate, gran., powd., 200-lb. dms., c.i., f.o.b.		
IPRILE 3		1	lots	2.81	-	workslb.	1.08	
II IIIVEV	•		Picelo acid, pure paste, 25-lb, cins., c.l.,			Potassium bromide, NF., gran., dms., c.i. f.o.b. works b.	1.12	
			dry basis, f.o.b. Charlotte, N.C	6.00	-	Potessium carbonate, Ig., 47% K ₂ CO ₃ ,	14.60	
WEEK ENDING OCT. 24,	1986		tech., paste, 25-lb. cins., t.l., dry ba-	5.00	_	tenka, t.w., works 100 lbs. dms., c.l., t.l., works 100 lbs.	20.65	
Perchloroethylene, dry cleaning grade,			sts, f.o.b. Charlotte, N.C b. Pigment green B, kgsb.	2.20	-	calcined, 99-100% K₂CO₂, nopper		
distr., tanks, clvd lb.	.28%	-	Pilocarpine hydrochloride, USP, drns	500.00	2 000,00	cars or trucks, works 100 bs.	32.50	
indust, grade, consumers, tanks, dividib.	.81	_	Pimento see Alispice		-1000:00	han of the works 100 tos.	35.20	
Peri acid.dmslb.	2.55	-	Pimento leaf all, drns	14.50	-	drums	36.40	
Permanen) red 2B, (red 48), calcium salts, dms., frt. ald lb.	6.25	-	bulk, f.o.b. works 100 lbs	47.00	63.00	400-lb. dms., 5-dm. lots lb.	.40	
barkım saltş, same basis jb.	6.25 3.25	-	dma., c.l., t.l., same basia 100 lbs	51.00	54.00	Potassium chiorate, cryst., dms., c.i., works b.	.141/2	
Peru balsam, f.o.b	5.00	_	g-Pinene, perfurne gradeklio	1.62	-	powd., drns., c.l., works ib.	.30	
Petroletum, USP, endw white, dms., c.i., refy	.375	_	tach, grade	.18 2.30	.23	purif., gran., 325-lb. dms., f.o.b. shipping point lb.	.40	
tanks refvb.	.310	-	tech.grade.tanksD.	.35	.40	Potassium chioride, chemical grade,		
USP, soft white, dms., c.l., refy ib. tenks, refy	.375 .310	-	Piperezine, anhyd., dme., t.i., frt. ald.	1.80	_	99.95% KCI, bulk, c.l., f.o.b workston	105.00	
USP, By white, data, all, refy b.	.370	-	Piperezine citrate, 38%, dms., 1,100-			USP cryst. dmsb.	1.12	
Petrolatum, USP, Lifty white, tanks, refyb.	.305	-	ib. lots, frt. aldb. Piperazine dihydrochloride, 53%,	2.25	2.35	USP gran., dms	.67 .67	
USP, cream, dms., cl., relyfb.	.365 .30		dms., t.i., frt. alld	2.00	-	USP powd., dmslb. Potassium chloride, agricultural (see Pol	asalum muri	ati
tanks, refy	.350	- 1	Piperazine hexaltydrate, 44%, clms., 1,100-lb. lots, fit. ald lb.	1.60	_	Potassium chromate, purif., cryst.,		
tanks, refy b. USP, amber, dms., c.i., refy ib.	.285 .345	-	Piperazina phosphate, 42%, dms., t.l.,			dms., worksb. Potassium citrate, NF, gran., 200-b.	.57	
tenks, refy	.280	-]	frt. alid.,	1.80	-	dms., frt. elki	.931/2	
Petroleum plich (see Asphelt, petroleum). Petroleum sulfonate, 60-62%, sulfonic			workskilo.	6.92	-	Potassium cyanide, dms., 20,000-lb. lots or more, f.o.b. works lb.	1.32	
CONT., HIMIWY, DURK, WORKS ID.	.4814	.49	Piperonyi butoxide dms., divd. E ib. Platinum, metal, works Troy oz.	5.00 666.00	-	Potassium dichromate (see Potassium		
MMW, same basis lb. LMW, same basis lb.	.49 .49	.4914	Polycarbonate resin, pelets, nat., t.i.,		4.00	bichromate). Potaseium fluoborate, tech., dms., c.i.,		
Prices for 51% sulfonic content 2c per	ib. lowe	r on corre-	frt. alid	1.84	1.86	t.i., works, frt. equald lb.	1.40	
aponding molecular wis. Phenacelin USP, powd., 200-lb. dms.,		ŀ	thophthalic, bulk, tenkcare,		60	Potassium fluoride, anhyd., dms., t.l.,b.	1.68	
1,000-lb. lots, divd lb. 100-lb. dms., 1,000-lb. tots, divd. lb.	2.20 2.22	2.45	irt. alid	.51 .68	.53 .62	Potassium gluconate, dma., t.l., f.o.b.		
p-Phenetidine, drns., c.l., f.o.b lb.	2.00		Polyethylene realn, high-density, blow			worksb. Price W. of Deriver 4c, per fb. higher.	1.45	
Phenobarbital, USP, dms., 500-kilo lots., f.o.b. works kilo	19.50	_	moking, g.p., hopper cars, frt. alid	.43	.46	Potassium gualacolsulfonate, 300-lb.		
Phenobarbital-sodium, NF, 500-kilo			Injection moiding, g.p.,hopper	.43	.46	dmå., 600 lbs. or more frt. equaldb.	2.10	
lois, f.o.b. works klio Phenol, syn. tanks, frt. equald ib.	27.00 .26	.29	cers, frt. eRd lb. extrusion, g.p., hopper cars, same	.40	.40	Potassium hydroxide, tech. (see Potash		
p-Phenoisulfonic acid, 65% soi'n.,	_		basis	.47	.48	Potassium frydroxids, USP, pellets, 100-lb. dms., c.l., t.l., works,		
dms., c.l., fob works lb. tanks, same basis lb.	.84 .58	-]	wire and cable, nat., hopper cars, same basisb.	.45	.49	frt. equald	1.29	
Phenothiazine, indust. grade, 50-lb.	2.33		wire and cable, black, same ba- sisb.	.551/2	57	Potassium lodide, USP, gran., cryst., dms., 1,000-lb. lots divd lb.	10.72	•
baga, c.l., f.o.b. works Ib. purif. grade, same basis Ib.	2.59 2.69	-	Polyethylene realn, low-density, film			ACS grade truckload 1b.	11.32	i
Phenyl acetate, dms., 100-lb. lots,	1.04	_	iner, hopper cars, fit aid ib.	.36	-	Potassium-magnesium sulfate, std.,	59.00	
Phenylacetic acid, pure cryst., 25-lb.			clarity film, hopper cars, frt.,	.37	-	basis 40% K ₂ SO ₄ and 55%		
di-Phenylalanine, dms., 25-kilo	4.50	-	paliet shrink film, hopper cars, same basis	.35	_	MgSO ₄ bulk, works ton Potassium metabisuliate, gran., dms.	67.00	
1019	84.00	-	extrusion coating, hopper cars,			thb.	.44	
1-Phenyl-3-carbethoxy pyrazolone-5, dms. 200-b. lots, dvd. E ib.	3.45	_	same basisib. g.p., hopper cars, same basis . ib.	.38 .38	.42 .42	1 Potessium muriate, 60-62.4% min.		
m-Phenylenediamine, cast, drns., c.i.,			Polyethylene linear fow-density g.p.			K.O. std., bulk.c.i., frt. equald.,f.o.b. Sask.,		
t I., f.o.b.works ib. o-Phenylanadiamine, flaked, dms., t.i.,	2.07	-	resin	.36 .40	.40 .431⁄2	Canada ton	44.00	•
f.o b, works	3.25	-	cast film realn	.40	.45	soluble, fine std., f.o.b,	47.00	
p-Phenylanediamine, flaked, dms., f.o b. works	4.00	_	Polyathylene resin, low-density injec- tion molding, g.p., hopper			coarse, f.o.b. Saak ton	49.00	!
Phanylaphrina hydrochlorida, USP	175.00	105.00	cars, same basis ib.	.45	48	gran., f.o.b. Sask ton Potassium nitrate. fert. grade, std., 50-	50.50	١
Phenylethyl acetate, dms	3.35	185.00	line wire, CATV, power cable fb. wire and cable thermoplestic high-	.647	-	ton c.l., dvd. SE ton	267.00	2
2-Phenylethyl alcohol, NF, dms lb. b-Phenylethylamine, dms., 30,000 lbs.	2.10	2.20	voltage, natural color, same		• • • • • • • • • • • • • • • • • • • •	prified ton tech., gran., bgs., c.i., min. 50 tons,	277.00	2
ormore, frt. alld	1.50	-	basis	.70	.741/2	divdton Potassium oxalate, neutral, tech., line	470.00	
Phenylethylphenyl acetate, 25-lb.	5.50	6.90	14% carbon black, same	071	- 704	gran., powd , 300-lb. dm., lrt.		
Phenylglyconic acid (see Mandelic acid). Phenylnydrazine, 99% min., dms ib.			basis	.67¥ .587		equaldb. Potassium pentaborate, gran., bgs.,	2.54	
1-Phanyl-3-methyl-5-pyrazolona.	3.50	-	Polymyxin sulfate, USP, bulk, 60-bitton units minmullion units	E0.		c.l., worksb.	1.01	
dms., 250-fb. lots divd. E lb. o-Phenylphenol, dms., U., works lb.	1.60	2.00	Polyoxyethylene sorbitan monos-	.52	-	I Cms., same basis, ib.	1.08	
p-Phenylphenol, bgs., tJ., 40,000 lbs.	1.35	2.00	tearato, dms., 20,000-lb. lots, worksb.	70		Potassium pentaborata powder 15c. p Potassium perchlorate, dms. c.l.,	er 10. nigner.	
or more, works	1.85	-	Polyoxyeinyiene somitan instearate,	.73	-	worksb.	.78	
100-kila am kila	24.00	28.00	dins., 20,000-lb. lots, workslb.	73	_	Potessium permanganate, free flow- ing, bulk, hopper trucks,		
Phenylselfcylate, purit. cryst., drns., E	2.75	_	Polypropylene resin, homopolymer,		-	worksb. 50-kg. dms., same basis,b.	1.09	
tech., cryst., E	2.25	-	o.p., nat., t.l., frt. alid lb. copolymer, med. impact, nat.,	.45	.48	150-kg. dms., same basisb.	1.20 1.17	
flake, E	2.35	-	1 same basis	.60	.56	Potassium permanganate, USP, 50- b.		
Phosgene, 1-ton ret. cyle., 5 to 9-cyl.	1.95	2.05	high impact, same basis ib. Colored material 6c. per ib. higher for	.53	.60	kgs., works, c.l., t.l b. Potessium persulfate, 225-lb. dms.,	1.38	
quantities, works b.	.55	.67	each grade.			24,000 lbs. or more, 1.o.b.		
Phosphate rock, Fig., land peoble, run of mine washed, 68-68% b.p.l.			Polystyrene reain, cryst., net., hopper cars, frt. alid	.48	_	plant	72.50	
bufk c.l. mines ton vessel, Tampa, same basis ton	23.15	-	impect, nat., hopper cars, same be- sia			Potassium pyrophosphate tetrabasio bgs., c.l., t.l., works, E., irt.	ı	
Phosphoric acid, com'i. and tech.	28.00	-	nigh heat, high impact, nat., hop-per		-	equald	43.76	
grades, 75% tanks, works 100 bs.	20 00		cars, same bass		-	bulk, same basis 100 ibs. Potaseium salicylate, USP, gran., 200	46.00	
60% tanks, works 100 lbs.	29.00 31.00	_	1 97808, 1.000-lb, lots, lb.	RQ	-	 ID. 0ms., 2,000 lbs. or more. 		
85%, N.F. tanks, I.o.b. freight equald 100 lbs.	33.50	_	Polyvinyi alcohol, tuly hydrotyzad	73	-	works. frt. alid b. USP, powd., 300-lb. dms., 2,000 lbs.	1.59	
Food grade prices \$2.00 above tech, o	rade.	-	I INEQUALITY VISCOSITY, DO.S., E.L.			Or more, same basis	1.42	
Phosphoric acid, agricultural grade, 52-54 % a.p.a., tanks,			partially hydrolyzed, medium viscos.	. 1.00	1.05	Potassium silicate, soln., 29.8-30.2 Be., 2.5 ratio, t.c., t.t.,	1	
worksunit-ton	3.10	-	I IIV. DOB., t.L. ORMI. By	105	-	worke,	. 18.90	
basisunit-ton.	3.45	_	polymer dispersion, p.p., homo-	.		drns., c.l., t.l., works. 100 ibs. Potessium silicate, 40-40.6 Bs., 2.1 re	25 00	
Phosphorus, white (yellow) solid dms., cl., works, irt. equald			I Orygunium in h	E S	_	1 PO, t.C., t.l., Works 100 lbs	. 26.05	
innks works for hundre th	1.00 .91		g.p. suspension, bulk, same ba	- 50	ـ ا	90-40.0 t/8., 2.1 ratio, drns.,	99.06	
Phosphorus oxychloride, tanks, fri.			Pipe grade, Durk, same beals Ih	47	-	PORSSIUM BISCATE, SISCETORICA CENTA		
Phosphorus pentasvilida, powd.,	.40		film grade, bulk, same basis Ib Polyvinyl chloride, g.p. copolymer dis	_		L 30-30.4 08., 2,1-2,2 mile, te		
oms., c.i., works 100 lbs. tota bins. setiers 100 lbs.	50.00 45.00		t persion, same basis	1. RO	.61	t.t., works 100 bs dms., o.l., t.l., works. 100 bs	9946	
Phosphonic poplayide days 41	-u-UU		g.p. copolymer suspension, same basis	. 45		auto of glass, 2.15 ratio, dma ni		
Phosphorus pentoxide, dms., 1.1.,			Turkey, bas	59) -	solid of class, 2.5 ratio days, old the	E5 0A	
Phosphorus sesquisuffide, dms., cvs.,	.82	-		53	-			
Phosphorus sesquisuffide, dims., cvs., C.L. works.	.82 .38		TOURST HONG IN WILLIAM DATE OF THE PARTY	u12 (e).		"Kalla" inclinates sesses sesses sesses sesses sesses sesses	1_n.	
works. b. Phosphorus sesquisuffide, dms., cvs., c.l., works. b. Phosphorus trichloride, dms., c.l., works. b.		۰ -	Potash, caustic. iq., 45% basis, tank	h 19 Ar		Dercenters betterfage by we	ight of 810 ₂	đ
works. b. Phosphorus sesquisuifide, dms., cvs., c.l., works. b. Phosphorus trichloride, dms., c.l., works. b. tanks. works. b.	.38	-) -	Potash garcultura (see Potassium m Potash, caustic. liq., 45% basis, tank Works	13.00		percentage by weight of K.O. Potasskin silicofluoride, bgs., c.l., t.l.	lght of 810 ₂	
works. Phosphorus sesquisuifide, dms., cvs., c l., works. Phosphorus trichloride, dms., c.l., works. b. tanks, works. Phihalicanhydride, fiske, c.l., t.l., dms., fit, equatic.	.38 .40 .35	· -	Potash agricultura (see Potasskum m Potash, causitic kq., 45% beats, tankt Works	B. 13.00 B. 18.00 B. 18.00		Percentage by weight of k ₁ O. Potassium silcofluoride, bgs., c.l., t.l. frt. equald	lght of 810 ₂	
works. b. Phosphorus sesquisuifide, dms., cvs., c.l., works. b. Phosphorus trichloride, dms., c.l., works. b. tanks, works. b. Philhaicanhydride, flake, c.l., t.l., dms., fr., equald. b., molen, tanks, same basis. b.	.38 .40 .35 .30	- :	Potash agricultural (see Potasskum m Potash, caustic. iq., 45% beals, tank Works	13.00 8. 18.00 1. 18.00	5 <u>-</u>	Percentage by weight of K.O. Potassum sillooftoride, bgs., c.l., t.l. frt. equald	111/2	
works. b. Phosphorus sesquisuifide, dms., cvs., c.l., works. b. Phosphorus trichloride, dms., c.l., works. b. tanks, works. b. Phihalcanhydride, flake, c.l., t.l., dms., fit. equatd. b. moiten, tanks, same basis. b. Prices i-11/sc. per ib. higher on the We Phihalinide, flake, works b.	.38 .40 .35 .30	- } : } :	Potasriagricultura (see Potasskum mi Potash, caustic. kg., 45% basis, tanki Works	8. 13.00 8. 18.00 1. 18.00 1. 42.30	8 <u>-</u> 5 -	Potassum standard tree for the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the collection of the	111/2 	
works. Phosphorus sesquistifide, dms., cvs., c.l., works. Phosphorus trichloride, dms., c.l., works. b. tanks, works. Phihaic anhydride, flake, c.l., t.l., dms., frl. equatd. moiten, tanks, same basis. Phices 1-14c, per lb. higher on the We Phihairide, flake, works. Ib. Phihaicoyanise blue toner, red shade,	.38 .40 .35 .30 .27 st Coast .85	- - - -	Potash agricultura (see Potaskum m Potash, caustic. kg., 45% basis, tanki Works	8. 13.00 8. 18.00 L, a. 42.30 J, .90	8 5 - 0 1.91	percentage by weight of K ₂ O. Potasskim silicofluoride, bgs., c.l., t.l. frt. equald. b Potasskim-sodium tartrate, NF, gran or powd., dms. b Potasskim sorbate, t.l. dme., divd. lb Potasskim stannate, dms., frt. sild. bb Potasskim stannate, dms., frt. sild. bb	111/2 .11/2 80 2.20 . N.A.	
works. b. Phosphorus sesquisuffide, dms., cvs., c.l., works. b. Phosphorus trichloride, dms., c.l., works. b. tanks, works. b. Phihalicanhydride, flake, c.l., t.l., dms., fit. equatd. b. moiten, tanks, same basis b. Phihalicanhydride, flake, c.l., t.l., dms., fit. equatd. b. Phicas I-1Vac. per lb. higher on the We Phihalicanhe blue toner, red shade, bbis., fit. alid. E. of Rockles. b. green shade, same basis b.	.38 .40 .35 .30 st Coast .85 8,10 6,40		Potash agricultural (see Potassum m Potash, causitic. kq., 45% bests, tanke Works	8. 13.00 8. 18.00 1. 42.3 190 190	8 <u>-</u> 5 -	percentage by weight of K ₂ O. Potasakin silicofluoride, bgs., c.l., t.l. frt. equald. Potasakin-sodium tartrate, NF, gran or powd., dms	111/2 	!
works. Phosphorus sesquisuffide, dms., cvs., c., works. C., works. Phosphorus trichloride, dms., c.l., works. b. tanks, works. Phithalicanhydride, flake, c.l., t.l., dms., frt. equald. Ib., mollen, tanks, same basis. D. Prices 1-14c. per ib. higher on the We Phithalicanhydride, flake, owerks. Dithalicoyanine blue toner, red shade, bbis., in: a&d. E. of Rockies. D. green shade, same basis. D. rusinated, bbis., same basis. D. rusinated, bbis., same basis. D. rusinated, bbis., same basis.	.38 .40 .35 .30 .27 st Coast .85 8.10 6.40 6.20	9.50 9.50 8.75	Potash agricultura (see Potaskum m Potash, caustic. kg., 45% basis, tanki Works	8. 13.00 8. 18.00 1. 42.33 191 b91 b7	8 - 5 - 0 1.31 1½ - 2 -	percentage by weight of K ₂ O. Potasskim silicofluoride, bgs., c.l., t.l. frt. equald. b Potasskim-sodium tartrate, NF, gran or powd., dms. b Potasskim sorbate, t.l. dme., divd. lb Potasskim stannate, dms., frt. sild. bb Potasskim stannate, dms., frt. sild. bb	Ight of 8iO ₂	. 1

Potassium bichromate, gran., 400-lb.

					_
48 -	'	Polassium totraborato, gran., bgs., c.l. worksb.	1.10		
45 .41	9	dms , same basis	1.15 higher	:	
90 1.20	0	225-lb. dms., 5-dm. lots lb. tech., crystdms., t.l lb. Potassium titanato, ctns., c.l.,	4.01 .62	:	
00 20.00		worksib. Potassium-titanium fluoride, tach	.714		
- 80		Potassium-zirconium fluoride, tech d m s t.l., works fri	1.24	1.59	
12 - 60 -		equaidib, Prednisone USP. dms., 5 kilos or	.78	•	
65 -		rnoregram Prednisolone acetate, USP, drns., 5 kilos or moregram	1.03 1.12	•	
.50 - .20 -		Prednisolono, anhyd., USP, dms., 6 kilos or morogram Procalne hydrochloride, USP, antibi	1.12		
.40 -	_	otić grada, dms., 2,000-lb, lots, irt. alidlb. Proceine hydrochloride,	4.95	5.76	
.40 .4 .14½ –	"	USP, ampulo grado, dms., 1,000. Ib. lois, frt. alid	4.95	5.50	
.30 -	1	Propionalognyos, tanks, r.o.b b, Propionic acid, syn., pure, tanks, divd.	.35% .33	•	
.40 –		n-Propyl acetate, tanks, divd	.58½ .42	30 <u>t</u> 	
.00 - .12 -	- 1	n-Propyl-p-hydroxybenzosia USP	11.50	-	
.67 - .67 - ım muriate).		500 kilos kilo tech., 500 kilos, f.o.b kilo Propyl paraben (see n-Propyl-p-hydroxyb	10.80 10.38 (Onzosie)	:	
.57 –		Propyl paraben (see n-Propyl-p-hydroxyb Propyl thiouracil, dms., 50-kilo lots or more	55.00		
.93% -		Propylene, polymer grade, f.o.b. Tex. and La Guil Coast points . b.	.75 .17%		
.32 -		chemical grade same basis ib. Propylane glycol, indust., tanks, f.o.b. ib. USP, tanks, f.o.b. E ib.	.154 .40 .43	.16 .61 41	
.40 1.4		tanks, divd. E	.49		
.68 –		Propylene oxide, tanks, f.o.b. works, frt. equald lb. Psyllium seed, USP powd bgs lb.	.47V 1.60	1.75	
.45 –	.	lotston	270.00	-	
		medium, 0V2-1V2, bgs., ton lots . ton coarse, 2-extra coarse, bgs., ton lotston	300.00		
2.10 – stic).	`	lotston Purnice, imp., Italian, fines, bgs., ton lots f.o.b. East Coastton medium, bgs., ton lots. f.o.b. East	280.00	-	
.29 1.3	31	Coastton coarse, bgs., ton lots f.o.b. East	350.00	•	
).72 12.: 1.32 13.!		Pyrazolone red (red 38), dms., works	300.00 5.25	535	
9.00 -	.	Pyrethrum flowers, fine grd. 0.9% pyrethrins, ton lots, frt. ald. lb.	1.91	-	
7.00 -	.	Pyrethrum, purif., 20% pyrethrins, dms., worksb. Pyridine, refd., 2-deg., c.l., works	37.50	37.73	
.44 -	-	drns., kilo tanks kilo Pyridoxine hydrochloride, USP, 100	5.70 5.70	:	
4.00 45.	00	Pyrites, Canadian 48-50% S.	29.00	39 00 5 00	
7.00 -	.	minoslong ton Pyrogallic acid (see Pyrogalici) Pyrogalici, 100 ib. dms., 1,000-lb.,	4.50		
9.00 60. 0.50 61.		iols, divd	13.70	1525	ı
7.00 274. 7.00 284.		\wedge			
0.00 -	- [
2.54	-	10	.67	_	J
1.01 1.06	-	Quassia chipa	20.75	24 Z 194	
higher. .78	_	alid	17.75 21.75 17.76	24.25 18.00	
		violot, dms., irt. alidb. Cuinco seed, bgsb. Cuintdino sulfato, USP, 1,000-oz. dms., 2,000 oz. or moreoz.	2.00 4,20	273 425	
1.09 1.20 1.17	-	drns., 2,000 oz. or more oz. Quinine hydrochloride, NF, 1,000-oz. drns., 2,000 oz. or more oz.	2.45	22	
1.38	-	Cuining sulfate, USP XVIII, 1,000-02.	2.30 1.49	25	
8.80	_	Quinoline, dms., 1.1., frt. oqualdb. tanks, semo basisb.	1.43		J
2,50	-				
	.25 .50	K	٠.		
1.52	_		2,12	•	ı
1.42	,	R selt toch., 304 molecular wtib. Recemethionine, USP, 50-280 kiloskilo	6.80	٠.	
8.90		250-500 kilos	6.60 6.60 1.07		
25.90	-	Repeseed oil, dms	.68%		
15.05 12.05	- -	Ded complex No. 40 (see Carmine No.	10)	170	,
20.10		Reservine, USP, cryst., bols gram.	. 40 3,98	, •.	
26.10 33.10	-	Resorcinol, USP, cryst., dms. 50 kilos	9.35	:	
53.30 15.65	-	Down, Origin Spirits County 1,000	1,98		
of SIO ₂ divid	ded by	DB. Of MOI O. molybdated	9'26		
.111/2	.15	PMA, dms., works. ib. tungstated, PTMA, dms., f.o.b. works. ib.	11.50 105.09	10.10	
2.20 3	1.20 3.10	Syn., dms.	1	4	
N.A.	-	Rhubarb root, india, whole, bgs. powd., bgs. Riboflavin, feed grade, 25 kilos, ido. Riboflavin, USP, 25 kilos, dvd. Riboflavin, USP, 25 kilos, dvd. Riboflavin 5-phoephate soukin, ido.	94.50 14.00	110	
),00	Riboflavin, USP, 25 kilos, dvd. kilos Riboflavin 5-phosphate sodium, 25	38,00	, s 1 = 1	
.68		National Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	100		
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fice bran oil, refined drins, t.i. Richoleic acid (see Castor oil acids,	BLAILI.	Sodium bicarbonate, USP, powd., rag.		Codi.	
Rochelle Salt (886 Potalistum-socium	nina.)	grade, bgs., c.l., t.l., works, irt. equald 100 lbs.	17.05 _	Sodium orthosilicate, tech., anhyd., bgs., c.i., works 100bs.	34.50
Rose Of, nat., Nr. Burgarian, Ot	ilo. 3850.00 3990.00		18.05 - 17.20 -	flake, dms., cl., worke, 100 hs.	27.45
Turkish, etto., bots	110. 2250.00 3000,00 11.00 11.00		17.85 - 17.60 -	Sodium exalate 99% bee 11 treate in	26.25 .45
Turisian, ams	NB. 6./5 15.00	works, frt. equaldb. Sodium bifuoride, 400-lb. dms., c.l.,	.57 _	c.i., 30,000-lb min.	.67
works unit-	-lb21 .23	frt. equald	.78 _	bgs b. Sockum pentoberbital (see Pentoberbita Sockum pertocrate tetrahundak	.66 al-sodium).
		dris. cl.	.78 - 75.00 -	Sodium perborate, tetrahydrate, tech., bgs., c.l., t.l., works	.321/2
2		works East 100 ii.	13.00 _	ibs. or more, f.o.b. plant b b	.631/2
3			28,50 32,00	Sodium phenobarbital (see Phenobarbit Sodium phenobarbital (see Phenobarbit Sodium phenobarbital (see Phenobarbit Sodium phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenobarbital (see Phenob	
		Solo 100% bulk works Mosta Wood 2	20.60 _	Sodium phosphate, anhyd., dibasic tech., bgs., c.l., t.l., works, irt.	.76
Secharin NF, gran., soluble, dm 1,000-lb lots, frt. alld l	lb. 2.60 2.76	priotographic grade, 43% soin.,	20.00 -	food grade same heele 100 bs.	64.50 57.50
Section NF, powd., soluble, dms., let than 20,000-lb. lots, frt. alid I	b. 3.75 –	works.	21.90 _	same basis 100 kg	57.50 56.75
Sattlower oil, non-break, tanks, N.Y if adbie drns., N.Y., divd.	lb98 1.02	Sodium borohydride, powd. dos	.51 – .52 –	tribasic, tech., same basis. 100 hs.	59.75 52.26 5
Sage leaves, Dalmatian, No. 1, bgs. 8 Abanian, bgs	D. 1.65 -	Sodium borohydride, stablized water	9.88 21.90	chlorinated, same basis, 100 ba.	63.25 31.50
TuridahII Sage oli, Clary, French, botakii Damatian, cneit	lo 90.00 -	SOOD get tenlauseen westen.	17.45 -	cryst., tech., same basis. 100 lbs. cryst., food grade, same ba-	30.50
Spanish, cns	lo 12.50 –	dms., f.o.b. works	1.04 _	USP, dried, powd., bgs., dms.,	35.50
Selcytamide, NF, gran., powd., dms 2,000-b. lots, one ship it	l.,	Sodium carbonate, decahydrate, bgs, c.l., t.l., works	4.00 -	Sodium picramate, tech., paste 200.	.19
Salicylic acid, tech., dms., o.i., t.i. works.	l.,	Sodium carbonate, cryst monohydrate (see Sodium carbonate, monohydrated,	Soda, ash)	b. dms., dry baels, divd b. Sodium propionate, dms., 2,000 lbs, or more, f.o.b. frt. alid b.	5.50
USP, cryst., dms., 1,000 fbs. o more	OF .	bgs., c.l., t.l., works ton 38 Socium carboxymethyl cellulose (see GMC.) Socium chlorate, crystal, bulk, t.c., t.t.,)2.00 –)	Sodium pyrophosphate, acid, tech., bgs., c.l., works, frt. equald 100 bs.	.54
USP, powd., dms., 1,000 lbs. o morelb	or	I 090/9/90. N.E	0.00 -	works, frt, equald 100 be	58.25
Salo (see Phenylsalicylate). Salt, evaporated, common, 80-lb, bgs.		delvered, S.E. ton Sodium chlorate, cryst., 450-lb. dms., c.l. works. E lb.	5.00 -	C.I., t.I., works	61.25 .3880
c.l., I.l., North, works 80 lbs bulk, same basis tor	n 60.00 61.20	Sodium chloride, tech. (886 Salt.)	.27 _	Bunhyd., tech., bos., c.l., r.f.	.3000
chemical grade, same basis. 80 ibs Sait, rock, medium, coerse, same ba	 -	works dms., c.l.,	.29 -	works, in equald 100 lbs. bulk, hopper cars, same ba-	44.75
sis	n 18.00 25.00	t.l., works	1.17 1.27 .87 -	food grade, bgs., c.l., t.l., same ba-	42.50
Salicake, dom., bulk, works, 100% N ₂ SO ₄ , basis, f.o.b. works E tor	n 65.00 98.00	C.L. t.L. works	.64 -	Sodium salicviate, USP, cryst 200.b.	53.00
same bäsis W	0 145.00 -	dms. c.l. t.l. N.Y.	1.95 –	works, frt, equald	3.00
Sercosine, tech., tanke, works, frt.	<u>.</u>	100-lb. bgs., t.l., f.o.b. ship-		USP, powd., 200-lb. dms., 1,000-lb. lots or more, same basis lb.	3.05
Schaeffer's sait, paste, dms., 100% basis works	2 50	Sodium cyanate, dms. 1.000-lb. lots	.74% -	Sodium sesquicarbonate, bulk, c.f., t.l., works	170.00
100-oz lots bots	38.00 48.50	Sodium cyanide, briguettes or gree	.85 -	bgs, c.l., t.l. works 100ibs. Sodium silicate, solid, or glass, 3,22-	198.00
seaso acid, CP, aga., c.l., works lb.	· 1.95 –	99% min., 200-lb. dms, min., divd	.71 -	3.25 ratio, bulk, c.l., t.l., works	15.70
Seignium, powd., 99,99% Se., dms.,	301/2 _	Sodium discetate, annyd, dms., c.l., works	.68 -	bgs., c.l., t.l., works 100 lbs. 1.95-2.00 ratio, bulk, c.l., t.l., works 100 lbs.	27.76
comi. 99.5% Se same besie in	13.00	t.l., dvd. E. of Rockles ib. Sodium discetate, tech., 50-lb. dms.,	.61 .67	bgs., c.l., t.l., works 100 bs. soln 37.6° solid., 3.22-3.25	20.30 22.15
half, bla	75 80	c.l., works	.52 -	ratio, bulk, c.i., t.i., irt.	6.30
DOWd., bhis, bye	70 .71	or mixed t.l., t.o.b. shipping	2.60 2.85	nercentage by welcht of the C	able of Sin alle
Sesame cel, USP. dms., i.c.i. ib. Sesame seed, Central American, hused by		Sodium ferrocyanide, bos. 1.1.	2.60 2.85	Works, frt. squaid 100 be	17.95 19
hulled, bgs ib. Sienns pigment, burnt, paper bgs., Lc.J., works ib.		Sodium fluoborate, tech, gran, drns.	.60 –	Sodium sulfanitate, dms. wks. frt. alid. E.ib. Sodium sulfanitate, dms. works	N.A. .22
Sitca, amorph, dougraf base at	.1814 .2314	Sodium fluoride, white, 97%, 400-lb.	.77 -	Sodium suifate, NF XII, powd., dms., 2,000-lb.fots	.231/2
98%, 200 meeb	31.00 32.50	oms., c.l., works, int. equald ib, 100 bgs., c.l., same basis	.6345 - .60 -	works, Gulf	90.00 96
98 5%, 325 meeh	34.50 35.50	USP powd., 200-lb. dms., t.l., f.o.b. shipping point ib. 4.	.69 -	Sodiumsulfate, West, bulk, c.l., works, frt. equald ton	90.00 101
Soca, dry-ord, box of wearing on any	51.50 54.50	Sodium gluconate, tech., 50-lb, bgs.,	.20 -	Socium sulfate, photo grade, 100-b.	113.00 114
99% under 15 microne	72.00 75.60	2,500 lbs. or more frt. alld. Tib. Sodium hydride, oil dispersion, 60% NaH, 167-lb. dms., 10 dms.,	.60 -	bgs., c.l., workston Sodium sullhydrate, flake, 70-72%,	47.00 53
99% Under 10 micross ton	79.50 82.50	works	.86 -	dms., c.l., works, frt. equaldton liq., 44-46%, tanks, works, frt.	500.00
Soca, hard-quartz, 99.5% SIO ₂ , 325	104.00 105.00	accium nycrosulite, dms., c.i., t.i.,	.64 –	equaldton Sodiumauffide, flake, dma., c.l., works,	500.00 ·
mesh, bgs., cJ., works ton 140 mesh, bgs., cJ., works ton Scon tetractionds, tech., dims., cJ., works,	37.00 - 34.76 -	f.c.b. shipping point E ib. Sodium hydroxide, USP, pellets, 100- ib. dms., c.l., t.l., works, frt.	.04 -	E., Irt. equald ton	470.00 ·
works	.60 _	Sodium hydroxide, tech. (see Soda, caustic.)	.96 .98	accium suinde, fused, dms., c.l.,	240.00
Sivis countrie that A	.36 5.55 -	Ib. dms f.o.b. works Ib. 1.4	425 1,50	Sodium sulfite, anhyd., tech. 95-100% bgs. f.o.b. works 100 fm	23.78
intrate, ACS, 58.2 Troy Oz. AG/	4.43 –	Sodium hyposulfite (see Sodium thiosulfate).	47 1,52	Sodium sulfocyanide CP (see Sodium (hio Sodium tetraborate (see Borax).	xoyanale).
DOWN ALL THE PROPERTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	9.32 1.00 1.35 1.85	Sodium looke, USP, cryst., 300- to 500- b. lots. dms. frt. equeld lb. 14,7 Sodium lauryi sulfate, 30%, tanks,	72 ~	i Socium letrasulfide. Ilq. 34%, dms., C.f., works., frt. squeld log. 8	540.00 -
Date of America (Oction Dather	1.35 1.85 120.00 -	1.0.b. works	29 .32	b. drns., 6 dms. or more	
1901 58%, 100- In 1905-151. LON	83.00 -	Sodium lignin sulfonate, bgs., c.i., works 100 lbs. 25.5	50 -	f.o.b. works	3.26
CHIEF ALL AND THE STREET AND THE STREET	150.00 - 123.00 -	Sodium metabisulfite (see Sodium bisulfite). Sodium metaborate, ootahydrate,	38 -	Sodium thiosulfate, tech., photo- grade,	.97 –
Guif Coast works, f.o.b., (ri	-	tetrahydrate, gran, bgs, c.l.,	90 -	anhyd., 100-lb. bgs., o.l., t.i., works, frt. equald 100 fbs. cryst. pentahydrate, o.l., t.i., same	45. 50 –
ide 78% 400 basis ton	175.00 195.00 205.00 225.00	Sodium, metalio, 12-lb. bricks, dms.,	98 -	Socium titanate, dms., c.l., works ib.	28.50 -
76%,700-lb.dms, o.l.	600.00 570.00	fused, dms. 24,000-lb. lots or more,		Sodium trichioroacetate, 95%, 50-b. bgs., c.l., frt. slid. E b.	.14% -
ran., 75%,450-lb.dms.c.l.	520.00 570.00	8 Sodium metaphosphete, tech. bos	37 – 70 .80	Socium impolyphosphate, tech., bgs., c.i.,	39.75 -
venus, 76%, 400-in, done.	520.00 -	o.i., f.o.b. shipping pt. frt. equald 100 lbs. 61.5	io – i	bulk, hopper care, same basis, 100 lbs., food grade, bga., o.i., t.i., same be-	97. 5 0 -
higher for solid, and \$30, \$00	27.00 28.50 Br. Prices in West 70c.	food grade, bgs. o.l. f.o.b. frt. equald, 	rs -	als	48.50 -
Bal, CONG. hos	ar ungener tor gran. and	Scolum melasiicate, annys, ogs., c.i. works 130 lbs. 27.2		dme., 10,800 lbs. or more, fit.	5.00 5.60
works. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 lbs. 100 l	3.35 3.86	bulk, o.l., works 100 lbs. 26.3 pentahydrate, bgs., o.l., f.o.b. ship- ping point 100 lbs. 18.9		Folin grade dms., 10,800 lbs. or more, same basisb. Sodium-ammorium phosphata, puril.,	8.00 -
totan scatta, anhyd., bgs., c.l., totan scatta, USP, 60%, gran. 100- b. dns. cl., works.	.54 _	bulk, c.l. works	0 : - :	cryst., dms., worksb. Sodium-formaldehyda suifoxylata,	.52 -
"WINDER NE WARE	.57 -	Sodium molybdate, anhyd., dms. f.o.b. works, 100 lbs and over lb. 4.67 cryst., dms., t.l., same bask lb. 4.12	7	dms., f.L., f.o.b. worksfb. Sodium-zirconyi suifate, dms., 1,000-	.91 -
b. lots Cylate, drns., 100.	6.00 6.75	Sodium naphihionate, dms., s.l., t.l., f.o.b. works	. 4	b. lots or more, works b.	.28 - .16 -
300 m	4.73 _	Sodium Nitrate, USP, bgs., cl., f.o.b., frt. equald100 lbs. 34.50		tech., dms., any quantity, works h. Solvent naphtha, petroleum, straight aromatic, b.r. 320°-350°F,	
COLORIA JOS. JANG. E. ID.	1.49 1.50	Sodium nitrate, dom., industrial, bgs., c.i., works		56°F m.a.p., tanka: New Jersey	1.52 ~
kios sour osr dms., 100 kio kio kio frt ald sources	9.30 10.50	bulk, c.i., works		Houston	1.41 - 1.54 -
ci ti fit alid 50-lb. bgs.	.701/2 -	Gulf whee: ton 205.00 bulk, c.l., same basis, ton 182.00	214.00	410°F, 60°F m.s.p., tenks:	
1004 Calling Office	- 4468. - 4436.	imp., agricultural, buk, c.i., sama basiston 140.00		New Jersey	1.30 1.35 1.30 -
tribia, came besis. ib.	.89 - .92 -	Sodium nitrite USP, dme., c.i., works, frt. equild			1.80 1.30 1.35 2.20 8.10
Acres (Acres			October 27, 1986	CHE	
			1 P. C. S. C. S. C.	harmonia de la companya de la companya de la companya de la companya de la companya de la companya de la compa	THTT

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bgs., c.l., t.l., worksib. Sodium persullate, 225-lb. dms., 24,000	1	.361/4	FNIVE3
55-ib. bas, same basis	.6312	-	WEEK ENDING OCT. 24, 1986
Sodium phenobarbital (see Phenobarb Sodium phenosulfonate, powd., dms., b. Sodium phosphate, anhyd., dibask			Sorbitan morroatearate, dms., c.i., t.i.,
tech., bgs., c.l., t.l., works, irt.			SO, UUU ID. MIN., T.O.D.
30dium phosphate, monobasic, tech	57.50	-	ocupitent friatestate' Cri. 11'' 30'000 IP'
food grade, same basis, 100 bs.	56.75 50.76	-	8orbitol, USP, reg. 70% aqueous, dms., c.t., f.o.b. shipping
food grade, same basis. 100 bs.	52.25	52.75	poimlb35 -
cryst., tech., same basis . 100 lbs.	31.50	-	gran., ams., c.l. t.l., works ib
ciyat., 1000 grade, same ba-	0E E0	_	Soybean oil (See Oils, Fats & Waxes market report.) Soybean oil (See Oils, Fats & Waxes market report.)
works	40	.201/2	95% acid, tanks, New York in 14 45
b. dms., dry basis, divel b.	E 50	-	Soybean oil, acid, dibi., dist., dms ib
odium propionate, drns., 2,000 lbs. or more, f.o.b. frt. alid b.	64	-	tanks
odium pyrophosphate, acid, tech., bgs., c.l., works, frt. equald 100 bs.	58.25	_	Spearmint leaves, imp., bis ib. 2.50 2.70 Spearmint of, Far West, native ib. 14.00 15.00
food grade, non-leavening, bgs., c.i., works. frt. equald 100 bs. odium pyrophosphate, ferric, dns.,	61.25	_	Far West, Scotch B 15.00 12.00
c.i., t.i., works	.3880	-	Spruce oil, dms
enhyd., tech., bgs., cl., tf., works, frt. equald 100 bs.	44.75		Stannic chloride, anhyd., dms
bulk, hopper cars, same ba- sis	44.75 42.50	-	Stannic oxide, dma, works
Bis	69.00	-	Stannous Chiorde, anhyd., dms. wks . ib. N.A. — Stannous fluoborato, ikq., conc., dms
odium salicylate, USP, cryst., 200-lb. dms., 1,000-lb. lots or more		•	Stannous oxide, dms., works Ib. 2.50 -
USP, powd., 200-lb, dms., 1,000-lb	3.00	-	Stannous sulfate, dms., works
iots of more, same basisib. odium sesquicarbonate, bulk, c.f. i.l.	3.05	-	triple-pressed but 15 28 375
WORKS	170.00 198.00	-	Stramonium leaves, bgs
ocium silicate, solid, or glass, 3.22- 3.25 ratio, bulk, c.l., t.l.			Strontium carbonate, glass grd., bgs., t.l., works
works 100 lbs. bgs., c.l., t.l., works 100 lbs.	15.70 27.75	-	works
1.95-2.00 ratio, bulk, c.l., t.l., works 100 lbs.	20.30	_	t.t., 1.0.b. works lb
bgs., c.l., t.l., works 100 lbs. soln 37.6° solid, 3.22-3.25	22.15	-	1.O.b. plant
ratio, bulk, c.i., t.i., irt. equald	6.30	· ·	Clear, same basis b
"Ratio" Indicates percentage by we percentage by weight of Na ₂ O odium silicofluoride, bgs., c.l., t.l.,		awaed by	frt. alld
works, frt. equald 100 fbs. odium stannate, dms. wks. frt. alid. E.fb.	17.95 N.A.	19.76	work 4.74
ocium suitanifate, dms, works ib. ocium suifate. NF XII. powd., dms	.22	Ξ	Sucrose, refd., white, bgs., c.i., f.o.b.
2 IXXIII IME IL	.231/2	-	dmstJ. dvd.
tech., detergent, reyon-grade, c.l., works. Gulfton odium sulfate, West, bulk, c.l., works,	90.00	96.00	100%, drns., t.l., divd
irt. equald ton bulk, cl.i, East, same basis ton		101.00 114.00	Sucrose octa-acetate, denaturing grade, 100-lb. dms., f.o.b.
odkum sulfate, photo grade, 100-b. bgs., c.l., works ton	47.00	53.00	works
dium sulfhydrate, flake, 70-72%, dms., c.l., works, frt.			Sulfabenzamide-sodium, dms. 500 klos. klo. 25.00
equaldton	500.00	-	Sulfacetamide, USP, dms., 500 kilos
equaldton dium sulfide, flake, dms., c.l., works, E., frt. equaldton	600.00	-	Kilos
bgs., same basis ton dium suifide, fused, dms., c.i.,	470.00 410.00	-	klos
works, E., frt. equald ton dium aulfite, arrhyd., tech. 95-100%	240.00	-	dms., 500 kilos kilo
bgs, f.o.b. works 100 fbs. dium sulfoovanide CP (see Sortium its)	23.76	-	dris., 50 kilos
dum letraborate (see Borax). dium letrasulfide. liq. 34%, dms.,	ooyaa aatoj.		klios
C.I., Works., frt. squeld lon flum thlocyanate, purif., cryst., 250-	540.00	-	Suffernio ecid, cryst., bgs., c.l., t.l., works
ib. dms., 6 dms. or more f.o.b. worksib.	3.26	. .	Suramic acid, gran., cms., c.l., t.l.,
more, worksb.	.97	-	Subaniemide, NF, reg. 1,000-lb, cims., frt. equald
ium thiosulfate, tech., photo- grade, enhyd., 100-lb. bgs., c.l., t.l.,	48 EO		Suffanilio acid, tech., bgs., t.l., f.o.b. worksb67½ Suffaquinoxaline, veterinery, grade,
works, frt. equald 100 lbs. ryst. pentahydrats, c.l., t.i., same basis 100 lbs.	45.50 28.50	_	driss.,
ium titanata, dms., c.l., works lb. ium trichioroacstats, 95%, 50-b.	.1414	- [Vessels Guifoorts Songton 160 00
bos., o.l., frt. alid. E lb.	.28	- 1	recovered, divid., Houston long ton 125.50
um tripolyphoephate, tech., bgs., c.i., t.l., works. frt. equald 100 bs., dk, hopper cars, same basis. 100 bs.,	39.76 87. 5 0	-	1.0.0. tenks, Alberts, Canada, Jor US defivery
od grade, bga., o.i., t.l., same be- als	48.50	- 1	Suffur, crude, 99.5% min, purity, comi.
um tungstate, tech. high moly., dms., 10,800 lbs. or more, fit.			bass
alid		5.60	kmp, same bests
more, same basisb. um-ammonium phosphate, puril., cryst., dms., works,b.	8.00 ·]	50-lb. bage, c.i., mines be- ala
um-formaldehyde sulfoxylate, dms., t.L., f.o.b. worksb.	.91	_	sia
um-zirconyl sulfate, dms., 1,000- b. lota or more, works b.	.28		min. purity, 50-lb. bgs., c.j. mines basis
h., dms., any quantity, works lb.	.16		Sulfur, rubbarmakers, 99.5% min. pu- rity. comi., red., 50-b. bris
nt naphtha, petroleum, straight aromatio, b.r. 320°-360°F, 56°F m.a.p., tanks:			c.l., mines besis 100 bs. 14.60 ~ fine, 98% min, passing through 325
riew Jersey gel. Houston gel.	1.52 1.41	-	Mesh, same basis 100 fbs. 15.60 Sulfur dichloride, dms., p.i., works, 61
nt naphtha, petroleum; straight aro	matic, b.r.	960°F	tanks, same basis
New Jersey gal.	1.30 1 1.80		Works 10, pure t.d., t.t., t.O.D.
New Jerety gel. Houston gel. Illnois gel. peld, LL dras, dwd. b.	1.50 2.20	.35 .10	Sulfur monochicide, dina., c.l., works, frt. equald b. 22% thrike, same banks
October 27, 1986	CI		L MARKETING REPORTER: 47
and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o			AT

CHEMICAL MARKETING REPORTER

WEEK ENDING OCT, 24, 1986

WEEK ENDING OC 1. 24, 1	300	
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Sulfuric acid, virgin 100% tanks, works,	4 75	95.90
	1.75 5.00	88.40
Old Chart	0.25	99.40
mpg regpt 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-
CONTRACT (8.16	-
	5.00	7707 and
NOTE: For prices on 60 and 66 Be., mult	ably by	IIGI BRU
.9319, respectively. For price of 20%	iumung	Olevii, as
is, add \$3-\$4 to above prices and mu	iupiy iy	1.092.
Sulfuric acid, amelter, 100% tanks, works,		E0 00
CHOP COURT I I I I I I I I I I I I I I I I I I I	8.00	52.00 25.00
	0.00	20.00
	3.15	-
	0.00	65.00
Sunflowerseed oil, crude, f.o.b. Min-		1416
neapolis	.1444	.161/2
Superphosphate, triple, 45% or more.		
a.p.a., run-ol-pile, bulk, c.i.,		
	2.75	3.05
bulk, gran., c.l., Flaton 16	0.00	165.00
المالة المراسل بالباطنية الأنواري والمراس		طبهسس

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The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		
Talc, dom., grd. New York bgs., c.l.,	84.00	_
works		
Talc, dom., 99.5%, 400 mesh, mi-	84.00	90.00
Crontzed, Ings., c.i., Works ton	87.00	238.00
625 mesh, micronized, bgs., c.l., works	200.00	-
dom., ord., Calif. grd., bgs., c.l.,	90.00	
ord., Vermont, old-color grd., bgs.,	80.00	-
C L, works ton	136.00	-
Imp., Canadian, grd., bgs., c.l., works	70.00	84.00
Tall oil, crude, Southeast, tanks, works, frt. equaldton	90.00	100.00
Tali oil, refd., acid, same basis (b.	.31	-
dist , tanks, same basis	.19	.23
works, frt. equald lb.	.201/2	.23/2
loss than 2% rosin scid	.22. bort.)	.27
Tallow, fatty acids, tech., non-ret.	•	
dms., C.I., divdfb. tanks, divdb.	.37 .29	.40 .45
hydrogenated, tech., flake, bgs., c.l.,		
divdb. tanks,divdb.	.37 .35	.33 .42
Tangerine oil, Fla., dms. f.o.b	10.5D	11.00
Italian, dma	52.90	-
New York, bulkunit-ton	5.50	-
Tankege, fert. grade (see Nitrogenous pr Tannic add, NF, fluffy, bbls., 1,000- ib.	OCUST VER	KBgej.
iota. ,	6.09 4.62	-
tech., powd., dms		_
worksgal. 25-28%, t.l., dms., l.o.b. worksgal.	1.40 1.59	-
50-53%, I.1., dims., f.o.b. works . gal.	1.87	-
Tertaric sold, NF, bgs.,	1.20 12.00	1.50
i erpanitydrata, NF, imp., cryst., powd.,		
36 kilo drums, f.o.b. ship. pt., frt. equald	1.35	-
Terpineol	1.10 2.40	1.50
prime, drns b.	1.35	2.06
Terphyl propionate, dms. b. Tetrachicroethylene, tech. (see Perchic	4.50 coethylena	•/- -
ietachorosunyiene, USP, dms., dl.,	_	
t.l., worksb. Tetrsethyl orthosilicate, bulk, f.o.b.	.309	4 -
works	1.63	1.66
Tetraethylene glycol diacrylate, t.l. drs., l.o.b. works, b.	.87	-
oms., I.o.b. works, b. Tetraethylenepentamine, tanks, same	1.50	-
heats	1.70	1.75
Tetraethyithiuram disuliide, tech., fiske, dms., i.j., frt. alid fb.	68	2.07
Tetrahydrofuran dma., c.l., t.i., f.o.b.		
worksb tanks, same besisb	98	-
Tetrahydrolluriuryi alcohol fanka. f.o.b		_
Memphis, Tenn	7.20	
i etranyuroon unanc annyurude cims.		_
c.l., i.l. f.o.b. works	rn phospha	ile, letrabasio
Tetrasodium pyrophosphate (see So- tetrabasic.)		priosphālē,
Thellum metel, divd. Thellum suitate, 99%, bota., divd. idi	35.00 140.00	
Trecoromene, Dulk F.O.D, Works R	1. 4.OC	
Theophylline, USP, anhyd. 50-kill dms. 10,000-kilolots kil	0 0 12.00	12.95
Thisming hydrochloride, USP 100- kill	0	
dms., dlvd). 27.00	31.00

	_			
	Thorium nitrate, puril., dms., 100-b.	2.76 -	Tur Tur	merio, Aller pentine, cr
4 (128.00 - 1.45 -	_	Southe
_ []	Thyme leaves, French, bgs ib. Spanish, bgs	.75 - 20.00 -		
┇┋	Thyme oil, NF, red, dms kilo NF, white, dms	22.00 - 3.75 6.1	5	
l i	Trymol NF	52.30 56.2		
- 1)	works	N.A		
_ }	Titanium dioxide, anatass, bgs., 26- ton lots, irt. alid b.	.77 .7	79 UH	id entremer etok-idi
− 11	slurry shipments, 50-ton lots, dry be- sis, int. slid	.78 -		riolet, same nber pigme
	Titanium dioxide, rulie, reg., 108., 20-	.81 .8	u i	equald www.Amer
90 40	alumy shipments, 50 ton 108,	.84 -	l un	decvienic a
- I	Non-chalking ruille material costs 1c. per Titanium hydride powd. electronics		Un	88,46% N divd
7 and	Titankim tetraphioride, tech., bulk, c.l.	26.50 -		% N, agri west
m, 89 5.	1.o.b. works	.30 .3 .50 -		5% N, agricu a-Urai leave
00	less than 5,000 lbs. f.o.b.			
ĎÕ)	Yrksb. Toblas scid, 2,000 lbs. or moreb.	4.85 - 2.45 -	. 11	
00	d-a-Tocopherois, 67%, dris Kilo d-a-Tocopheroi acetate, 81% conc.	60.08 -	' I I	V
161/2	d-a-Tocophervi acid succinate, cryst.,	57.49 -	' '	
05	di-a-Tocophanol, dimakilo.	78.44 - 27.40 -		derlan root,
00	di-a-Tocopheryl acetate, USP 50-kilo dm, 1000 kilo min, kilo.	16.00 18.	en	Indian. bgs anadium o
}	50% dry powd., 50-kilo dm kilo Tolu balaam, cna			cyla., s anadium per
- }	Tatuene, petroleum, ind. or nitration, tank Atlanta, Ga., divd cal	.70 -	. {"	of V ₂ O
- 1	Bayonne, N.J., divd gal. Baytown, Tex., (.o.b gal.	.70 - .70 -	: _v ,	ib. dm andyke brow
1	Chicago, III. divid gal. Clairton, Pa., f.o.b gal.	.70 - .70 -	- J. V	aniik beans Java, tins
	Deer Park, Tex., 1.o.b gal. Ft. Wayne, Ind., divd gal.	.70 -	· V	andin USP Imp., dms.
• }	Gulf Coast, spot, barges gal. Houston, Tex., divd gal.			ersinol Ag etiveryl sca
00	New Jersey Metro, divd gel. Philadelphia, Pa., divd gel.	.70 .70	- 1	extra etiver of, B
00	Providence, H.I., divid gaj.	.70	- ['	Halten Java
- 1	Toluene di-isocyanate (mixed isomers), 80%, 2,4- and 20% 2,6- isomers, jumbo tankcars, dividib.	1.01	_ ^	ictoria blue dms.
-	p-Toluenesulionamide, powd., dma.,	3.55	_ _v	tungetated Inviecetate
-	t.l., works	3.10		inyi chlori grade
.00	buik, same basis		.64 V	'inyi etner, bots.
.00	d.,worksb.	1.80 1 1.70	.85 2	-Vinylpyridi tanks, wo
.23	flake, same basis	1.95	- IV	/inyitokuene /itemin A. sy
.23½ .27	Tolkdines, mixed, o-m-p, tech., liquid, c.i. f.o.b. works	1.03 .95	_ 1	A unii /Itamin A, ilq
	bulk same basis	2.90	_ \ <u>,</u>	units Namun A, 1
.40 .45	Cincinnati, Ohio ib. Tonka beans, Angostura, prime,	6.50	_ _\	perg /itamin B، (۱
.33	1,000-lb. lots	.38	- 1	/itamin B ₁₂
.42 .00	Tragacanih gum, No. 1, ribbons, cns. ib. flaked powder		.00	cyal gram Vitamin B ₁₂ -
-	Tributyl citrate, t.l., drums, f.o.b.,	1.70] [(CYEI
<u>. </u>	works		1.77	dium Vitemin B _{ij}
<u> </u>	tanks, same basis	1.33	- [B ₁₂ () man
-	dms., c.i., f.o.b., works b. USP, 100-b. dms., fri. equald ib.	.94 .99½	-	Vitamin B ₁₂ with
- '	1,2,4-Trichloro benzene, pure, tanke, divd	.811/2] ·	gran Vitamin B ₁₂ sorb
1.50	1.1.1-Frichicroethans, tanks, con- sumera, civob.	.40Va		gran Vitamin B ₁₂
_	1,1,2-Trichforoethane, tanks, f.o.b. worksb.	.42	_	NF,
_	Trichloroethylene, tanks, clvd lb. Trichloroisocyanuric acid, dms lb.	.38% 1.25	-	Vitamin B.
1.50	Trichlorophenoxyacetic acid (see 2,4,5 Tricholine citrate, 65%, soin., non-ret.	т, ''		ğild Vitamin C (
2.06	dnia., 1,500-lb. lots, divd., lb. Tricresyl phosphats, tanka, f.o.b.	1.35	-	Vitemin D (
	Works	1.60	1.76	Vitemin D ₂ Vitemin E (Vitemin H (
-	divd	57	- .48	Violet met
1.66	99%, tenks, same basisib. Triethangiamine lauryi sulfate, tanks,	45	.48	111
_	f.o.b. works	27W 1.83	.271/2	W
1.75	tanke, same basis	1.20	-	w
2.07	works	L 1.82	= 1	
	Triethylene glycol, tanks, f.o.b. Gulf it Triethylene glycol dipelargonate, tank	47	-	Warfarin (Ne
-	1.0.0. WORKS)291/z	-	Wheat ge
-	ecusid. Triethylenetetramine tunks, int. equald.	538 b. 1.43	1.46	White pre
_	Tri-sobutriene, tanks, divd.)51 b. 48	.65	Whiting (e Wintergre
etrabasic). ohale.	and E	i. h 674		Which has leaves,
_	Trimethylamine, enhyd., tanks, fr	t. h save	_	400 i
4.50	besis.	% b63%	_	high Wolkato
12.95	dun som, tanks, tri. equald., 100	% h	.57	325 m
31.00	Trimethylolpropane bgs c.l.t.i, divd.	b73	-	400 me
31.00	Tripeniaerythritol, tanks, frt. allei. F.	10. 1.50 In 1.00	-	Wool gra Wormse
_	i i /i/Withid Niscenhelm does at i	-6.	- .78	Mounte
6.05	oquaid. Tripropyiene glycol lanks, frt. al		0	V
5.85	1 109-01veromethyl) okromethane eo	diei	_	I
-	Li, works Triscisum phosphata(asa Sodium phosphata) L'Tryptophan, cims, 25 kijo lots	אוא פוש	elo) 65.00	V
8.12	I TUNG GIF, BANKS, KIND, New York	The si	.33	
	Turigatic acid 92/5%, dma., 1,7 6,000 lbs., works	.b. 12.85	. - `	Xanthan

_	Turmerlo, Alleppey over 6% b	Xyloni
-		
- 6.15	 	
56.20	U	
- .79	Ultramarine blue pigments, 550- 2,000 lblots, works	Xylen
-	violet, same basis	m-Xy
.84	raw, American, dom., bgs., Lc.I., b. 1372 1434	o-Xyl
nore.	Undecylenic ackd, dms., works	m-Xy 2,4-X
- .35	46% N, agricultural, bulk, divd. Mkd- west	Xylid
-	Uva-Urai leaves, tis b	_
-		V
-	\ V	
-	Valerius most Belgias hos b85 .85	Yara
18.50	Indian. bgs	Yeas
8.68	cyle., works	Ylan
<u>.</u>	fused or flake, per lb. V ₂ O ₈ , 550- th. dras., works	
=	Vanila beans, Madegascar b. 37.00 Java tins b. 27.00 30.00	
- .87	Vanilin, USP, dms., f.o.b works b. 6.25 - Imp., dms b. 4.75 5.00 Versinol Ag b 84 -	7
-	Vetiveryl scatate, dms kilo 60.50	
=	Halitan ib. 26.50 - kilo 31.03 -	Zeli
-	Victoria blue tonera, molybdatad, PMA dms	Zind to Zin
-	Vinyl acetate monomer, tanks, divd. b39 -	
.75 .64	grade, tanks, i.o.b. worksb28 - Vinyl ether, USP, aneethesia, 75-cc. bots., hospitalsbots. 1.56 -	Zin
1.85	2-Vinytoyridine t.L., dms. worksldio. 7.81 - tsnks, works	Zin
-	Vitemin A, synthetic, dry, pharm., 500,000 A units per om., 50- kito, lots, kito 33.00 –	
-	Vitamin A, iliq. in oli, pharm., 1,000,000 A units per gram, 10 kilo lota, . kilo 41.00 – Vitamin A, feed grade, 660,000 units	
-	per gmkilo. 18.70 23.85 Vitamin B, (see Trilamine hydrochloride). Vitamin B, (see Riboflavin and Yeast).	-
40.00 15.00	Vitamin B ₁₂ , cryst., non-sterile, USP (cyanocobalamin), vials, 50-	
<u>-</u>	Vitamin B ₁₂ .1% trituration of cryst. B ₁₂	
1.77	Ctum progenas, 25-kio dine, kio. 10.75 12.75 Vitamin B ₁₂ , 0.1% trituration of cryst. B ₁₄ (cyanocobalamin USP) with	
· -	marinitol, 25-kilo, drnskilo. 15.80 – Vitamin B ₁₂ , cobalamin concentrate NF with mannitol. 1,000 mcg, par	Zi Zi Zi
1/2 -	oram, dms, per gram schrity 19.45 – Vitamin B ₁₂ , 1% Vitamin B ₁₂ , USP, ab- sorbed on resin, 5-kilo dms., 500-	ZI
)V2 -	scroed on resin, 5-kilo dris., 500- gram lote, frt. add. per gram activity 15.85 Vitamin B ₁₂ , 1% cobetamin concentrate,	
2 - BV2 -	NF, absorbed on resin, 5-kilo dms., frt. alid. per gram activity. 15.40 - Vitamin B ₁₂ , 1% cyanocobalamin in	Z
5 -	gelatin, 2.5-kilo dms., frt. aldper gram activity 15.40 Vitamin C (see Accorbic add).	Z
5 -	Vitamin D (see Choiscaichteroi) Vitamin D _e (see Codiver and Fishliver clist.	Z
0 1.78 7 -	Vitanin E (see e-Tocopherol and Wheat garm oil). Vitanin H (see Biotin). Viciet methyl toner (see Methyl viciet toner)	Z
6 .48 5 .48	**	Z
7¼ .27½ 3 -	· W	Z
80 - 82 -) TT	Z
5 - 7 -	Warfarin 0.5%, dims., ton lots, frt. alid. New York of Chicago lb	• 2
281/2 -	cold-processed and 14.00	2
35 - 43 1.45 51 .55	White precipitate, USP powd., 100 b. dms., f.o.b. works]
45 - 571⁄4 -	Witch fizzel bark, bis	
541/2 -	325 mesh, bos., c.l. works ton 117 co	
.63% -	high aspect ratio, bgs., works ton 164.00 — Wellantonite, t.L., f.o.b., producing plant, general grade ton 200.00 —	
.56½ .57 .73 –	d00 meeh	
.50 - .00 -	1250 mesh	-
.64 .78		•
.64 - .605 -	Y	
	· · ·	

	Xylene, petroleum, Ind. or nitration, tanks Alliance, La., 1.o.b	.80 .80	·
١	Baytown, Tex., I.o.b	.80	:
ı	Chicago, IR., divd	.80 .80	•
١	CIRITON, PB	.00	:
١	Ft. Wayne, Ind., divd gal, Guil Coast, spot, barges gal,	.80	:
ı	MOUBION, LOX., GRO	.75	.77
١	New Jersey Metro, divid not	.80 .86	•
	Xylene, petroleum, ind. or nitration Tenta		•
١	Philadelphia, Pa., divdgal Providence, R.I., divdgal,	1.36	
١	South Band, Ind., divd asi	1.42	٠
١	m-Xylene, high purity, lanks, f.o.b.	121	•
	Toxas City, Texb.	.36	
	o-Xylane, lanks, works b, p-Xylane, lanks, divd b,	-125	.10
1	m-Xylenediamino. dms., t.i., f.o.b.	.195	•
	worksh	1.70	
	2,4-Xylidine, tech., liq., c.i., t.i, f.o.b.		-
	worksb. Xylidines, mixed, o-m-p., dms., c.l., t.l.,	1.50	-
	f.o.b. works		

Yara yara, 2	5-lb. cnslb. 2.81
reast, pure i	xewer,s debittered, NF, Sac- omyces, t.l., f.o.b. works . lb. 1,10
Yerba, sant	a léaves, bislb. 24
extra, bo	ls
orad	oli, extra gradelb. 23.93 e 1lb. 19.09
grad	e 2

١	4	
	Zein, bgs., 2,000-lb. latslb.	7.50
١	Zinc acetate NE. dms	1.00
ı	tech , dihydrate, bos , t.l., works, 10.	1.60
ł	Zinc borate, tech., 43% ZnO, 37%	
ı	8.0, 50-lb. bas., 20,000-lb. t.l.,	
ı	f o b works	.55
ı	cryst., 37% ZnO, 49% B ₂ O ₁ , 25040.	
ı	dms. 20,000 lbs. 1.1.1.0.b, wks. lb.	.89
ı	Zinc chioride, USP, gran., dms kilo	9.79
ı	Zinc chloride, tech., 80in, 50%,	
1	tanks, f.o.b. Cleveland,	
1	Ohla	20.20
١	Concord N.C 100 IDS.	20.20
1	Froeport Tex 100 IDS.	20.20
1	Old Bridge, N.J 100 103.	20.20
	65 degree same basis Clavelang.	07.00
1	Onto 100 lbs. Concord, N.C 100 lbs.	27.90
	Concord, N.C 100 lbs.	27.90
	Ciri Bridon, N.J 100 108.	27.90
	i 70 dooroo como nagis ljavelenu.	29.70
	Onlo 100 ibs	29.70
	Ohlo 100 lbs. Concord, NC 100 lbs.	29.70
	1	28.(4
	l 70 doggoo camp hagis Claveland.	33.20
	Ohlo 100 lbs. Concord, NC 100 lbs.	33.20
	Concord, NC 100 lbs.	33.20
	I OK BROGB, NJ IVV IUG-	1.12
	I Zinc chromate bos divo	1.65
	I Zinc cuanida dms. C.L	7,00
	I Zing dual niomant IVDO I & 2. Unio., V.I.,	.59
	f.o.b. plant	-
	Zinc ethylenediamine tetracetic acid.	

	Zinc cyanide, dms., c.t	1.65	214
	Lo b. plantib.	.69	£
	Zinc ethylenediamine tetraceric accu.	.56	
	t.c., t. (, f.o.b., works lb. 9% Zn., ammonia sait soin , t.c., t. t., f.o.b. works lb.	.48	
	Zino fluoborato, ilq. conc., dms., t.l.,	.66	:
	Zinc motal, high grade, civo	.44 .95	
	Zing gilirate tech. Illaka 300-lo dms. 15.	.34	3
	Zinc oxide photo conductive, bgs., c.l., frt. alid	,47% .48%	 #
	Zina ouldo migratori. American process.	.4077 .40	A
	lead-ine bgs., c.l., rr. and., ric.	,41	
	regular, bgs., c.l., frt. ald ib. Zinc phonoisultonate, purif., gran., 250-ib, dms., t.l., frt. ald ib.	1.82	•
	Zinc pyridinethiono, 48% dispersions, ib.	8.50 14.50	11
_	industrial grade 7 9.7 6% Zn.	.45	-
)	Zine silicofluoride, dms., c.)., t.i., ib.	.17 92	1
	Zinc stearate, USP, DUR, CL.		:
•	quat, grade 30 to 211, 5 100 lbs.	28.50	29)
	agricultural grade powd., bulk.	22.50	

	drns., f.o.b. works b.	14.50	
		Jalvina	
		45	
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-^		.17	
5 0		,92	
	Zinc stearate, USP, bulk, LL ib. Zinc sulfate, gran., monomyrate, in-		
24	dust, grade 36% Zn., bgs., c.l., 100 ibs. works.	28.50	
••	works 100 lbs.		
		22.50	
•			
•		13	
•	Zino ammonium cricarus, system ib. Zino undecylenate, dms., works. ib.	4.67	,
•	Zino-formakienyde sulfoxylate, basio	1.06	
00	Zircon gran. bgs., bulk c.l., works., ton	Ida	,
-	Zircon miled bgs., 200 and 325 mesh,	. 225.00	
•	Zircon gran. bgs., bulk c.l., Works. Zircon miled bgs., 200 and 325 mesh, con. Zirconium scatate soln., 25% Z/O, dms.,		
	Zirconium acetate soin., 25% ZrOs, dme.,	, . 	
00	c.i. 30,000 bbs. min., works. b. 22% ZrO ₂ , same basis. b. Zrocotium burkide. powd., electronic	(0,	į
<u></u>	Zinespiem burbide powd. electronic	81	*
	Littoriani iliyosaasi pisada		1
	Zirconium oxide, powd., comi, dine.	120	Ì
	2,000 lbs. min.	12	į
	2,000 lbs. min.	444	

CENTRIFUGES

p5400 Sharples, 316 S/S RECONDITIONED p3400 Sharples, 316 S/S, (5) p3000 Sharples, 316 S/S, RECONDITIONED p660 Sharples, 316 S/S (2) 40"x 60" Bird, 304 S/S, reconditioned by mfr. 6" Bird OBS, 316 S/S NX207 Alfa-Laval, 316 S/S Flex Drive BRPX-213 Alfa-Laval, 316 S/S construction BRPX-213 Alfa-Laval, 316 S/S construction SAOWH-3036 West Falla, sant., S/S SA-1-02-175 West Falla, Pilot Plant 3 way S/S 48" Sharples "Tornadomatic" 316 S/S (2) 48" Tolhurst, "Batch Master", S/S (2) 48" Sharples "Sludge-Pak" Model SP-6500, 316 S/S 48" Western States, "Sludge-A-Tron", 316 S/S, (3) 48" Western States, "Sludge-A-Tron", 316 S/S, (3) 22" Baker-Perkins, pusher design, 316 S/S 12" Krauss-Maffel, pusher designed, 316 S/S 8" Baker Perkins Pusher Design, 316 S/S 38600 Alfa-Laval pusher design, 316 S/S

SZEGVARI ATTRITOR 60 gal. Szegvari, jacketed, stainless steel

PRESSURE FILTERS 480 sq. ft. Durco-Enzinger, Model 60DHC489, 316SS 370 sq. ft. Niagara Model 370-348, 304SS

322,8 sq. ft. Funda Model R-30, 316 S/S, jktd., 40 HP 76 sq. ft. Nisgara, model 33-12-5, S/S jktd. (2) 314 sq. ft. Nisgara, Model 42-310-22, 304 S/S 259 sq. ft. Pronto, Model 3259, S/S (2) 180 sq. ft. Sparkler, Model 33S30, S/S (2)

VACUUM FILTERS 8'x16' Ametek, 316 ELC S/S LIKE NEW CONDITION

6'x8' Elmco, precoat "Elmcomet" construction (3) 6'x6' Ametek, polypropylene 5'x7' Paxman, 316 S/S, precoat 16"x12" Elmco, 316 S/S, precoat

REACTORS-TANKS

9/S, G/L Reactors, up to 5000 gal. capacity, Tanks up to 15,000 gal. capacity (100's in stock) (S/S, G/L, C/S, FRP)

HORIZONTAL BELT FILTERS

8'x18' Eimco, rubber belt, vacuum (2) 4x12' Elmco, rubber belt, vacuum (2) 2'x10' Straightline, rubber belt, complete 2'x7' Straightline, rubber belt, complete 1'x3' Elmco, rubber bett, complete

BELT FLAKERS 30"x20' Sandvik, S/S belt flaker, complete 20"x32' Sandvik, S/S, complete system

FITZ CHILSONATOR Size 16 x 30 Fitzpatrick Chilsonator System, all S/S construction, with size 30 granulator, with drives

BALL/PEBBLE MILLS 5'x6' Patterson Jacketed Steel Ball Mill, 30 H.P. 3'x4' Patterson Pebble Mill, aricite lined

SAND MILLS 30 RS Premier, Susameyer Sand Mill, complete 12-30 Morehouse-Cowies Sand Mill, 50 H.P. 10-25 Morehouse-Cowies Sand Mills, 25 H.P. (2) 16-P Chicago Boller "Red Head" 30 H.P. Lab Chicago Boller "Bed Head" 1 H.P. Lab Chicago Boller "Red Head," 1 H.P.

LAB 3 ROLL MILLS 5"x12" J.H. Day, high speed, complete 4½"x10" Ross, high speed, complete 4"x8" Kent, high apeed, complete

ALL NICKLE CONSTRUCTION

Svigal, Nooter Reactors, 30/50 PSI (2) 500 sq. ft. U.S. Autojet Pressure Filter 107 sq. ft. Sparkler Pressure Filter, Model 33-S-19 5'x3' Ametek Rotary Vacuum Filter

JUST PURCHASED

7500 gal. Terre Haute Fermenters, 304 S/S, 50 psi (5) 4000 gal. horizontal batch still, S/S 2500 gal. Hicks tanks, 316L S/S, 50 psi or F/V 2000 gal. Nooter reactors, 316L \$/\$, 60/90 psl (8) 2000 gal. Pfaudler reactor, 316L \$/\$, 60/90 psl 2000 gai, Praudier reactor, 316L S/S, 60/90 pai 2000 gai. Mueller reactor, 316L S/S, 60/90 pai 2000 gai. horizontal batch still, S/S (2) 1250 gai. S/S Mix Tanks, 10 HP Vari- Drive (2) Misc. G/L tanks and kettles, to 3000 gal. (8) ST 100 Aeromatic Fluid Bed Dryer, all S/S

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RESIN MFG. EQUIPMENT-**OHIO LOCATION**

5000 gal. Struthers-Wells Reactor System, 347 S/S, 50 PSI or full vacuum internal, 75 PSI lacketed, 700°F, turbine agitator, with condensor, receiver, piping,

15,000 gal. Stainless Steel Tank, vertical, with Internal coils, top entering 40 H.P. turbine agitator
200 gal. Baker-Perkins Mixers, size 17GiM, type 304 stainless steel construction, fully jacketed, duplex dispersion blades, screw tilt, 40 H.P. (5)

35 gal. Patterson "Kneadermaster" Mixers, 304 stain-less steel, sigma blades, jacketod, 40 H.P. (5) 100 H.P. Sprout-Waldron Hammermills, Model CG-26 (5) 28" dia. Reltz Thermascrews, 304 S/S, jacketed trough 28' long, 15 H.P. varidrive (2) 40"x84" Patterson Screens, 1 deck, S/S (9)

IMMEDIATE AVAILABILITY-CALL FOR DETAIL!

NEW LIQUIDATION

PVC Suspension Plant Ohio Location 11-5,000 gal. Pfaudler Reactors, C/S construction, rated 220 PSI internal, 80 PSI jacket, 50/25 H.P. Philadelphia Gear Drive

Complete Nara Vertical Fluid Bed Dryer System, all S/S, 6'7" x 22'1", 2 stage, rated up to 10,000 #/hr., with

heaters, blowers, cyclones

Complete Proctor Vertical Flash Dryer System, all S/S, 3'1"
x 117'2", with heater, blower cyclones
20,000 gal. Stainless Steel Mix Tanks, 13'6"x18', 20 H.P. (2)
16,000 gal. Stainless Steel Mix Tank, 12'x18'4", 10 H.P. (1)
15,000 gal. Stainless Steel Mix Tank, 8'6"x27'6" 40 H.P. (1) 8,500 gal. Stainless Steel Tank, 9'6"x15'2" (1) 8,000 gal. Glascote Vacuum Receiver, Glass-Lined (1) 6,500 gal. Glascote Vacuum Receiver, Glass-Lined (1)

2,250 gal. Stainless Steel Kettles, 6'8"x8', jacketed, 10 2.250 gal. Stainless Steel Kettles, 6'8"x 8', Jacketed, 3 H.P.

2,000 gal. Stainless Steel Mix Tanks, 6'x8'4", 2 H.P. (3) 1,000 gal. Stainless Steel Kettles, 5'4"x6', Jacketed, 2 H.P. 1,000 gal. Stainless Steel Jacketed Tanks, 5'4"x6' (2) 4-A.O. Smith Silos, Glass-Lined, 14'x40', boited 1-Butler, Epoxy-Lined, 9'x32' welded 220 CFM Sullaire Compressor, 125 PSI, rotary screw design 117 sq. ft. Milkro Pulsair Collector, Model 25S-6-30, S/8

Derrick Screen, single deck, 3'x5' Misc. tanks, feeders, blowers, cyclones, pumps

REACTORS

5000 gal. Struthers-Wells, 347 S/S, 50#/75#
3300 gal. Acme, 304 SS, 74#/76# (2)
2750 gal. Acme, 304 S/S, 74#/36# (2)
2000 Colonial, 316 S/S, 100#/100#, w/coll
2500 gal. Cryochem, 316 S/S, 75#/75#, with coll
1600 gal. Perry Products, 316 S/S, 75#/150#
750 gal. Pfaudler, Glass-Lined, 100#/90#
200 gal. Pfaudler, 316 S/S, 55#/60# UNUSED
50 gal. Pfaudler, Glass-Lined, 25#/90# Complete 50 gal. Plaudier, Glass-Lined, 25#/90# complete sys-

tem, with receiver & condenser
30 gal. Pfaudier, 316 8/9, 60#/90# UNUSED
30 gal. Pfaudier, Giass-Lined, 25#/90#
10 gal. Pfaudier, Giass-Lined, 150#/85#
5 gal. Pfaudier, 316 8/8, 50#/80#

S/S PULVERIZERS

60 ACM Mikro Mill, 75 H.P. PC-38 Strong-Scott Pulvacon, 150 H.P, FASO-20 Fitzpatrick "Fitzmill", 75 H.P. (1) D-6 Fitzpatrick "Fitzmill", 7½ H.P. (2) Manesty "Rotogran" Oscillating Granulator

SPECIAL OFFERING

33' dia. Niro Spray Dryers, 316 S/S, UNUSED (2) complete spray drying facility, never installed, including (2) 33' dia. chamber, Model F-350 centrifugal atomizers. All equipment new 1978, as shipped from Niro awaiting installation.

10' dia Niro Fluid Bed Dryer , 304 S/S, UNUSED, com-plete system with drying chamber, heating-cooling systems, feed tanks, cyclone collectors, all piping.

VACUUM DRYERS

375 cu. ft. Stehning, Double Cone, S/S (9) 175 cu. ft. Veruleth, Double Cone, S/S (3) 60 cu. ft. DeDeitrich, Double Cone glass lined 50 cu. ft.F.J. Stokes Double Cone, 304 S/S 40 cu. ft. F.J. Stokes, Rotary, Vacuum, 30"x8', S/S 21 cu. ft. Balfour, Double Cone, glas lined 20"x10' Zimmer dbie. screw Holofiltes, S/S [ktd.,vac. (3)

MIXERS

50 gal. B-P, C/S, Sigma jacketed vac., 30 H.P. 34 gal. J.H.Day "Titan," Sigma jacketed, 3 H.P. 70 cu. ft. iJ.H.Day, Nauta, S/S, jacketed, UNUSED 200 gal. B-P, C/S, sigma, jacketed, vac., 75 H.P. (3) 75 liter Papenmeir Mixer, S/S, jacketed, 30 H.P. varidrive 8 cu. ft. Kelley Duplex, paddle, S/S, NEW 3.5 cu. ft. J.H. Day, Nauta, S/S

DISPERSERS

50 H.P. Cowles, vari speed. Like New

LAB 2 ROLL MILLS

8"x16" Reliable Lab Mill, 15 H.P., Like New 8"x16" Farrel Lab Mill, electrically heated, variable

speed, variable friction 6"x13" Farrell Lab Mill, 10 HP drive 3"x7" Farrell Lab Mill, oil heated, variable speed

LITTLEFORD MIXERS

FKM 600 D, 13 cu. ft. stainless steel, w choppers (2) KM 300 D, 6 cu. ft. stainless steel FM 50. 1 cu. ft. stainless steel, jktd., vac., chopper, 5
H.P., vari drive, All XP. New Condition.
FKM 8000 D, 169 cu. ft., carbon steel, 4choppers

FKM 8000 D. 169 cu. ft., carbon steel KM 4200 D, 86 cu. ft., jacketed, stainless steel FKM 3000 D, 65 cu. ft., jacketed, stainless steel KM 2000 D, 43 cu. ft., jacketed, stainless steel

S/S RIBBON BLENDERS

80 cu. ft. J.H. Day Sanitary S/S (2) 40 cu. ft. J.H. Day Sanitary S/S

ROSS PLANETARY MIXERS

40 gal. Ross, HDM-40, S/S, jacketed, vacuum, 10 H.P. varidrive (2)

25 gal. Ross, HDM-25, S/S, 15 H.P. varidrive 2 gal. Ross, 130-ELS, S/S, jacketed, vacuum, % H.P.

ARTISAN EVAPORATORS

50 sq. ft. Artisan "Roto-therm" Evaporators, all S/S construction, F/V internal, 150 PSI Jacket (2) 1 sq. ft. Artisan "Rototherm" Lab System, all S/S

COMPACTING PRESSES

6½ ton Manesty, Model BB3A, 27 station 6½ ton Manesty, Model BB3A, 33 station 4 ton Manesty, Model F-3, single punch

REFRIGERATION

200 ton Lewis Package Chiller, complete 30 ton Application Engineers, Package Chiller 15 ton Application Engineers, Package Chiller 10 ton Application Engineers, Package Chiller 7 ton Mayer Package Chiller 5 ton Peuchen Package Chiller, (2)

SCREENS

30" Sweco, S/S, 2 deck 18" Kason, S/S, 1 deck, unused (3) 36"x96" Rex-Carrier, 1 deck, S/S (4) 20"x48" Rotex, 1 deck, S/S

HEAT EXCHANGERS

Shell and tube heat exchangers, stainless steel, up to 2000 sq. ft. surface area-dozens!

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AND INTERNATIONALLY CALL US TODAY FOR A QUOTATION ON YOUR CURRENT NEEDS OR ADD US TO YOUR BIDDERS LIST FOR ANY FU-TURE PROJECT (201) 390-9550

DRYERS

Drum Dryers/Flakers (1) 24" dia. x 36" Buffoyse SS dble. drum (2) 32" die.x 108" Blew Knox CI dbie. drum

dryer (1) 32"die. x 17'6" Sendvik SS beit flaker (1) 36"die. x 10" Buflovek Cl dbie. drum dryer (3) 42"die.x120"Blaw Knox Cl dbie. drum

dryer i) 48"dis.x 28" drum flaker, chrome pialed drum (1) 48"dla.x 40" CI flaker, mfg. by Buffslo Foundary (1) 48"dia.x 40 drum flaker, nickel plated drum, mfg. Blaw-Knox

(1) Füzpatrick Model FA 250, SS, 20 HP XP Holoflite

1) Western Precipitation Model P80SSO-A, Iwin screw, 12" dis. x 20" long, S5 constr., jckt. rated 15 psl, complete with 7.5 HP vari-spead drive.

1) New/Never-Used Joy Precessor, CS, single screw, 16" x 18" long, rated 110 psl @ 340" F., aprocket & chain drive by 1.5 HP varianced drive.

Rotary Vacuum

(1) 200 Cu. Ft. Stokes, SS constr., compit. (2) 168 Cu. Ft. Pfaudier, Double Cone, G/L, 30 AFV/50 pstjktd., 15 HP vari-drive (1) 150 Cu. Ft. Blaw K nox, Nickel (2) 132 Cu. Ft. Stokes, Nickel (1) 72 Cu. Ft. Blaw Knox, SS (1) 50 Cu. Ft. Tilanlum Double Cone (1) 50 Cu. Ft. Gemco, 31688 senitary, double

(1) 37.8 Sq. Ft. Horiz. Thin Film, vac. int. & 150 peig, 304/31688

paig, 304/31688 i) paig, 304/31688 i) 30 Cu. Ft. P.K Twin Bhell, 30488 ii) 20 Cu. Ft. Abbe Twin Cone, 30488

(1) 30"x3' Bowen Laboratory w/3' cone bottom, S5 constr. w/centrifugal atomizer, 3 HP blower & motor,(1)
(1) Niro lab eize 32"diex2'w/2'cone w/centrif.

stomizer 58 contacte
1) 18' die. Bowen compit. system 58 contacte, new 1976

CENTRIFUGES

1) Delaval BRPX 309, SS, 20HP 1) Unused Model B-10 Podbletniak, Alloy 20

i) Alfa-Laval SS Decanter, Horiz., Mdl. NX314 (2) Dorr Oliver Mdl. CH30 CSU "Merco," 31685 contacts, 150 HP

1) Baker Perkins S-82 "Pusher Type," SS, 50 HP 1) Bird 18" x 28", 316 ELC, contour bowl. 2) Bird 24"x38", 316SS, 40 HP Sherples P-3000, 31655, 30 HP Sherples P-1000, SS 20HP

) Unused Bird 35 x96, 317L SS

Unused Bird 36 x96, 317L SS
 Tolhural 48" x 24" perf. basket, 316SS sanitary, auto. plow & discharge, reted 85 x7cu. ft. @ 900 RPM, 20 HP XP.
 Tolhural 48" x 24" Batchmaster, 316SS, perf. basket, w/hydr. plow & 20 HP hydr. drive
 Torhurat 48" x24" Batchmaster, rubber fined, perf. basket, w/hydr. plow & 20 HP hydr. drive
 Tolhurat 48" x 24" Batchmaster, Heresite lined, perf. basket, w/hydr. plow & 20 HP hydr. drive
 Western states 48" x 24", 316 SS
 Fielcher 48" x 28" Suspended type, SS perf. basket, 20/10 HP
 Sharples Ternado 48" x 30", 316SS perf.

Sharples Tornado 48" x 30", 318SS, perf. basket, 40 HP XP i) Alfa Lavai Model MAPX 210 T24, SS wetted

parts 2) Sharples C-27, 316 SS, wetted parts, 40 HP) Sharples C-20, Super-D-Hydrator, 8S, 30 HP) Dorr Oliver Mercone Screener Model C-400 X2, all SS, Win screw disch., 10 HP

PARTIAL LISTING ONLY

RIGGING

DISMANTLING

RE-ERECTION

DEMOLITION

LIQUIDATION OF 160 M.M. LB./YR. SODIUM TRIPOLYPHOSPHATE PLANT-KEARNY, N.J.

(1) 8'6" dia x 46'6" Bartlett Snow Rotary dryer, 316 SS, 100 HP (1) 8' dia x 50' Louisville Steamtube Rotary dryer SS clad, 40 HP
(1) 11'6" x 70' Long Bartlett Snow
Calciner, 316 SS, 1100° C, com-

(1) 12' dia C.E. Raymond Seperator, Single whizzer (2) Roto-Clone Type N Wet Scrub-

(1) 10,000 gal. Mix tank, SS constr. 13' dia x 10', 30 HP (2) 10,000 gal. Mix tanks w/int. colls, 13' dia x 10', 30 HP

(1) 4,300 gal. Storage tank, 304 SS, 91/2' dla. x 8' (1) 3,400 gal. Jkt. tank, SS constr. 150 psl jkt.

(1) 2,600 Storage Tank, SS constr., 7' dia. x 9'. (1) Butler Building

LARGE QUANTITY SILOS

Many Screw Conveyors Available Various Sizes, C.S. & SS Construction Buy Direct from Plant Site and Save Call for Complete Details

EVAPORATORS

(1) 1 Sq. Ft. Arthuen "Kontro" Ajust-O-Film sya., 31658 (1) 1.4 Sq. Ft. Luva Wiped Film, 31688, 1.5 HP 13 1.4 5 G. Pt. Luwa Whock Film, 316 SS, 1.5 HP
 14 2.6 Sq. Fl. Rodney Hunt Turbo Film 347 SS
 15 2.6 Sq. Fl. Rodney Hunt Turbo Film 347 SS
 16 3.6 S S. Fl. Votate Rindruder, 316 LSS
 16 3.6 S S. Fl. Votate Responsive System, 318 SS contracts, 16 pail & FV & Int., 150 pail jkt.
 17 Sq. Fl. Rodney Hunt Turbo-Film, 304 SS contact parts, 15 pail & FV / 150 pail (cft.
 10 0.8 Sq. Pt. Luwe SS Wiped Film Evep. System, 15/550 pail
 19 1.5 Sq. Fl. Votator Turbo-Film, 304 Sanit, SS FV/150 pail
 10 HP

(1) 20 Sq. Ft. Konkro Horiz. Adjust-O-Film, 316ELC, 50 paig, 15

(1) Approx 31 Sq. ft. Vert., Turbo-Film Processor, 304 SS Contacts 1) Like New 37.8 Sq. Ft. Luwe Horiz. Thin-Film Dryer, 304/316L

SS (1) 40 Sq. Ft. Kentro Adjust-O-Film, SS constr., 20 HP (1) 47 Sq. Ft. Attisen rising Film, Hest. "C" (1) Approx 51 sq. R. Pfaudler Wiped film, 316 SS, (00/95 & FV (1) 80 Sq. Ft. Kentro Wiped Film Syst., 65 constr., FY/150 psl,

(1) UNUSED 86 sq. ff. Luws thin film dryer horiz, 316 L wetted parts, FV int., 150 pai set stean jkt. (1) 141 Sq. FL Rodney Hunt Turbo-Film, 316 SS 15 pai int., 35 pai jkt 40 HP XP

BLENDERS

F. I. Iktd. Dbl. Rbn., C8
F. I. Iktd. Dbl. Rbn., C8
F. I. Iktd. Dbl. Rbn., C8
F. C. Ship
D 460 Cur. Ft. K. Ship
D 460 Cur. Ft. Marion Paddle, CS, 75 MP
Ft. CS Dbl. Cone, 30 HP
Ft. J. Day Dbl. Rbbon Carbon Steel Contr. 40 MP (2)
I. Ft. P. K. S 168S Dbl. Cone
I. Ft. P. K. Twin Shell, 116SS
Ft. J. H. Day Dbl. Rbbon Carbon Steel Contr. 25 HP (2)
II. Ft. CS Dbl. Cone, 7.6 HP
Ft. Marion Paddle, CS
Ft. Solb. Cone, 7.6 HP
Ft. Marion Paddle, CS
Ft. Gemco Dbl. Cone, 304SS
Ft. Gemco Dbl. Cone, 304SS
Ft. Gemco SS
Ft. Ft. Ft. Twin shell, 88
Ft. Ft. Pt., 704 SS, W/lig. bar.
Ft. Pt., 704 SS, W/lig. bar.
Ft. H. Wc Marion SS
I. Ft. Wc Marion SS
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I. Ft. Wc Marion SS
II. Ft. Gemco dbl. cone, CS, 14 MP
II. Ft. Sanit Twin Shell 14 MP
II. Ft. Howee, CS, Dbl. Rbn.
I. Ft. Sg, Dbl. Cone W/Elquid-eolide bar
Pt. K. zig zag

FILTERS

Pressure Leaf

1-562 Sq. Ft., 316ELC, Hercules, 28 leaves 1-512 Sq. Ft., 316SS, Niegera, 21 leaves 1-400 Sq. Ft. R/L Sperkler 1-327 Sq. Ft., 304SS, Ind. Filter, 11 leaves 1-320 Sq. Ft. Durco 316 SS, 11 Leaves

1-259 Sq. Ft. Pronto Mdl. #3259, 75 psig I-200 Sq. Ft., SS, Hercules, Horiz. I–191 Sq. Ft. Enzinger, SS, Vert., 75 psi I – 157.64 eq. Ft. Sparkler model 55-5-28 31688

-150 8q. Ft. Horiz., 12 Vert. Leaf 316SS 1-135 Sq. Ft. NI, Bowser, Vert. 1-35 Sq. Ft. Hercules Model 5, 316 SS, horiz. tank vert leaves 50 psi

Rotary Vacuum

1-56.5 Sq. Ft. KS, Inconel 600 1-56.5 Sq. Ft. K-8, 316SS, flexibelt disch. 1-87.92 Sq. Ft. Feinc, SS wetted parts, spring disch., 56" dia, x 6' face drum
1-132 Sq. Ft. Dorr Oliver, 304SS, maxibelt

-200 Sq. Ft. Elmco, 31655, 8'x8' 4-250 Sq. Ft. D.O. 316L SS Precoat, 8' x10', sanit -250 Sq. Ft. K-S 3168S, coll disch.

-300 Sq. Ft. Elmco, 316SS wetted parts, precoat type w/knife disch., 10" dia. x 10' drum, compit. w/control panel & 1-314 Sq. Ft. Elmco, precoat disch., 316SS 1-400 Sq. Ft. Elmco, CS, Precoat

1-500 Sq. Ft. Elmco, 316SS, belt disch. 1~3'x1' 316SS, knife disch. 1–3'x1' Dorr Oliver, FRP w/receiver & Nash

H4 vac. pump, 10 HP 1-3'x 1' K-S comp. sys., 316 SS Flex-belt

RECENT PURCHASES

.. FILTER BONANZA .. Sperkler pressure leaf Filters, All stainless Steel Construction 1-Model #33D9 1-Model #184D 1-Model #18D12 1-Model #33828

I-Model #18D12 1-Model #33828

Model DASO - 6 |kt Fitzmill, SS
Model DASO - 12 |kt Fitzmill, SS
16"x 12"x 42" SS Pugmill, 3HP Varispeed
40"x20" Tolhurst centrifuge, Kyner lined, perf. basket
4600 Gal SS mixtank, 50 pal
3500 Gal SS mixtank, 50 pal
400 gal, G/L Pfaudler Vert Reclever, 55 Pel.
81 Regie Bag Packer, Model #718 MLT.
5000 Gal, 304 SS jcktd., Mix Tank
8,600 gal, 316 SS Mix Tanka (2)
2" dla, x 3" Chrome Plated Fisker
Alfa-Laval Centrifuge, Model NX214/314.
8000gal, CS, Ammonia Storage Tank, 250 PSI.
60 cu. ft.PK Blender 304 SS w/nt. bar
63 cu. ft. C/S Marion Paddle Blender
175 cu. ft. PK Blender 316 SS
3.5 cu. ft. Prodex-Henschel Mixer, SS
500 liter Welex Mixere, SS
Littleford FKM-600 Mixer SS (2)
1750 gal, 216 SS Reactor, 16 & FV/50 psi jkt., 10 HP
1000 gal, 316 SS Reactor, 100/30 pal jkt., 10 HP

ATTRACTIVELY PRICED

1 - Approx. 51 Sq. Ft., Pfaudler, Wiped Film Evapor. 316 SS wetted parls ASME Coded,. Jacket rated 100 psi w/internal vacuum. Complete w/flange mounted motor to Pfaudier TW drive w/mechanical seal, lubricator & integral heat exchanger.

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GLASS...GLASS...GLASS *Six 101/4 x 17, Lined from 121/4 cast steel, 2000 PSI WE ARE GLASS SPECIALISTS WIN A TREMENDOUS INVENTORY PL Three 71/8 x 17, forged steel TURING UNUSED, USED AND RE LASSED ITEMS, OUR SHOP PER SONNEL ARE FULLY TRAINED TO Three 5% x 17, forged steel Two 18 x 14 Two 29 x 14 REACTORS

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Four 101/2 x 8

3M5/2M7, 2500 hp Driver 2M-10, 4000 hp Driver

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12"x30" BIRD Centrifuge, 316 Stainless with 20 HP motor.

18"x28" BIRD Centrifuge, 316 Stainless 10 deg Bowl, 80:1, with 15 HP motor. (Ref #23693).

24"x38" BIRD Centrifuge, 316 Stainless 15/3 deg Bowl, 40:1, with 40 HP motor. (Ref #23694).

500 HP CLEAVER BROOKS BOILER, gas-fired, 17,250 PPH, 150 PSI, New 1971. (Ref #23695).

UNUSED 500 HP CLEAVER BROOKS BOILER, gas-fired, Series 700, 17,250 PPH, New 1975. (Ref #23696)

ALSO AVAILABLE

HEIL Rotary Dryer, Model 105-32, 3-pass, 10'6" Dia X 32' with 100 HP HEIL BLOWER ASSEMBLY. (Ref #20104).

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KRAUSE-MAFEI 18.5" pusher S/S (rebuilt)
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SHARPLES AS-16, 16V SS Clarifler (Rbt.)

370 cu, it. 5/6 Conicel Vac. Dryers. Spray Dryar, Bowen 30" lab, Niro 48" utility 8/S Bowan 4"6" # 2 Tower Spray Dryer S/S gas Coulsville 8x45 8/B rot. hot air steam

P/K.2, 10, 15, 75 cu. ft. S/S Tw. Sh. W/R 135 cu. ft. dbl. ribbon stl. jkt. 70, 120, 155, 255, cu. ft. S/S Dbl. Rib. jkt.



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P.O. Box 345 CMR Ft. Washington, PA 19034 Telex 5714\$36 VIDEX UW FEINC 2x3, 5x7, S/S Rot. Vac. String SPARKLER 450 sq.ft. S/S Horiz. tank sani. Sperry 38x36 poly press 75 chambers 35,50,150,300 sq.ft. Press Leaf S/S & STL 12", 18", 24", 42", P/F Presses C.I. poly or S/S Niagara 342 Sq.Ft. Filter SS hor. tank 4'x20' Straight Line Filter SS 7.5HP w/access.

SPECIALS 2000 Gal. Plaudier G/L Reactor 15 HP agit & Baffle SHARPLES Mark 3 14' S/S perl. Autobasket SHARPLES Tornadomatic 48x30 316 S/S M/G Homog. 200, 1,000, 1,200, GPH Simpson 3FS/S Jkt. Mix Muller

Simpson 3FS/S Jkt. Mix Muller S/S TANKS 6000, 10,000, 12,000, & 29,000 gal. Fitz, D-6 Mill Jkt. Chamber, 7 HP 300 G Jkt. SS Groen kettle (2) 12,000 Gal. FRP Vert. TANKS Miro-Pulv. 1 SH S/S 5HP w/screw feed.

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As above but 30 cr. ft., 26°×99°, 10 HP stierson Ball Mills Jkt. XP 2 each k6° (25 HP), 5°× 6° (40 HP) & 6°× 8° (75 HP) ulsville (1°×30° 55 Rotary Dryer

) SWENSON TRIPLE EFFECT EVAPORATORS ,000 & 7,000 lbs./HR., INCONEL & HASTELLO

JH. Day 7, 35 cu. ft. Nautas JH. Day 7, 35 cu. ft. Nautas B/P 50 gai. St. D/ARM Mixer Jkt. W/Drive JY Yieco 100 cu. ft. S/S Nauta Mixers WE HAVE MANY MORE ITEMS - LET US KNOW WHAT YOU NEED

SPECIALS

hd 44 & 180, 8c, Pt. Lyophillizers Stoppering
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500 Gal. S-W Rubber Cement, or motors (2)
Unused 1000 Gal. Sanitary 31688 BK 0M Market 1000 Gal. Sanitary 31688 BK 0M Market 1000 Gal. Sanitary 31688 BK 0M Market 1000 Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal. Sanitary 3168 BK 0M Gal

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1,000 Gal. Praudier, 100sry/80 M 4RW 1,000 Gal. Praudier, RA60 Series, In FV/90 psl, 4DW 1,000 Gal. Praudier, RA60 Series, IN FV/90 psl, 4TW 800 Gal. SS clad, 60/60 psl 750 gal. DeDietrick, Phila drive

500 Gal. Plaudier, 100&FV/85 pt N

Stainless Steel 4,000 Gal. 316SS, Atmos, /50 pel, without 3,000 Gal. 347SS Blaw Knox, 150/50 pel

3,000 Gal. 347SS Blaw Knox, 180/80pl 2,500 Gal. 316L SS, 75/75 pal, 180 pulit on 2000 Gal. Nooter Autoclave, 318L XIII pal, FV Int. colls 2,000 Gal. Dusenberg, 316 88,18/81 FV Int., 50 pal jkt. 1,750 Gal. 316SS Noite, 1467/50pl 1,500 Gal. 304SS, 10 HP Lightnin 1,500 Gal. 304SS, 10 HP Lightnin 1,000 Gal. 304SS, 250/80 psl 1,000 Gal. 316SS, 50/75 psl jkt 1,000 Gal. 316SS, 55/75 psl jkt

1,000 Gal. 316 SS, 100/30 10 HP 750 Gal. 316SS, 75 & FV/50 psl

750 Gal. 3049S, 50/60 psi 600 Gal. 316SS, 3000psi, 10 HP 600 Gal. SS, 50 psi, 1.5 HP XP 500 Gal. 316SS, 55 & FV/56 psi

100 Gal. 316SS, 15/50 psl 100 Gal. 316ELC SS, 500/90 psl

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4.6 Gal. Kneader Master Cont., 58 s/kt.
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Glass Lined

PLANTS.

PLUS LOTS - LOTS MORE

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variapeed
100 Gal., SS, Sigma Blade, Jcktf. 40 HP
200 gal. W-P CS dbie erm Sigma blade, 3H
250 gal. AMK Kneader Extruder, 6H
Blades, CS construct, 40 pels, lower to
500 liter Welex hi Intensity, 88 coniscipation of the second second person of the second second person of the second second person of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second

HPXP unused 96" 4-roll L calenders. mill 60" 4 94" 7 mbers # 3 A, 3 D, 6 #11 D validation besterned MIXERS

MIXERS
Associated as Set., 30 a 200 cu. ft.
Associated as 19, 6, 17.5, 80 a 215 cu. ft.
Associated as 19, 6, 17.5, 80 a 215 cu. ft.
By Ratin MRX 990 Rt. 4025 fthp
M.Conkel Blanders 52, 77, 2, 700 cu.ft.
By Poly Material 25, 20, 60 cu.ft.
By Poly Material 25, 90, 125, 175 cel. March March 38 50, 10, 125, 175 get.

March Malers 38 52, 41, 75 IP UNUSED & #2

March Malers 38, 521, 77 IP UNUSED & #2

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March Marc

2,000 gal. SS reactors 150 pal. kt. sgit. (2) 1,000 gal. SS reactors 150 pal. kt., sgit. (2) Pfaudier 100 & 500 gal G/L reactors 2,180 gal. S.S. 100 pal 5'x9' (4) 2,800 gal. reactor 318 SS, 75 pal + Vac./160 pal jkt. EVAP.~DRY CENTRIFUGE Bird 36"x60" Hesteloy C centrifuge Blaw Knox 1500 & 160 sq.ft. SS Evaporators LUWA Thin Firm 200, 173, 120 & 20 sq.ft.

LIMA Thin Film 200, 174, 120 & 20 94-11.
VAC. oven 42" dis. x 80" L, 30 KW
STOKES Freeze Dryers 24 & 300 eq.h.
BIRD 24" x38" S.S. Cont. Cent.
Bowen 10" x30" & 20" x80" 88 sprey dryer
Hololitie 88 dryer-Chiller Model D16" 2-6
Abbe 83 2 cu, ft. conical yea, dryer

GENERAL leitz Prebraaker 300 HP SCR Drive R compressor 1000 cfm, 100 pei 200 HP IOT-VAC, Filter 10°x18', 8'x8', 4'x8', & 3'x8' CRK Turbomester 7000 Ton Refrig. ITOKES Model 640,294, T-4 T Presses Builn SS Homogenizers MC 18, MF 18 ± MC 45

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CABLE: REQUESTS NY

NEW ACQUISITIONS 100 gel. DeDietrich G/L reactor, 30/75 pei mech.

700 gal. Readco jktd. Sigma mixer, 400 HP 2 cu. ft. PK SS Twin Shell w/ber 23 cu. ft. SS Day double ribbon, 71/2 HP 18"x28" 316 SS Bird Solid Bowl Centrif. 3TH Mikro Pulverizer 30 HP

**** **** ***** ***

STS-100 Aeromatic SS Fluid Bed Dryer 300 gal. Pfaudler G/L 25/90 pai, 3TW Unused 70 cu. ft. Titanium dble cone vac Dryer

REACTORS 2000, 1000, 750, 300 gal. G/L, mech. seals

(7)
3000 gal. 316 SS 100/150 psi vari. agit.
3000 gal.304 SS, 25/125 psi, ½pipe coil
jktd., agit New 1974
2000 gal. 316 SS, 75/180 psi, agit.
1000 gal, 316 SS, 30 & FV/150 psi, agit.
500 gal., 316 SS, 75 & FV/70 psi, agit
24 more in stock from 10 to 300 gals., 304
& 316 SS. Call Now.

SS BLENDERS

69 cu. ft. SS Patt. cone, w/liquid bar Ribbon/Paddie: 650, 200, 120, 70, 40, 23 cu. ft. (26)

30, 20, 10, 5, 2 cu. ft. (18) Twin Sheil: 200, 100, 75, 40, 30, 20, 3 cu. ft. some with intensifiers (12) **MIXERS**

Double Arm: 1000, 500, 300, 200, 150, 10, 7, 2½, gal. Sigma, jktd. Pony: 125, 75, 100, 80, 60, 50 gal. (12) Planetary: 100, 85, gal. vacuum
Dispersers: 75, 50, 40, 25, 20 15 HP (8)
Littleford: FKM 2000D, FKM 600D, D, FKM

130D. fktd. & choppers (3) MISCELLANEOUS

30, KS 27, Stokes: 212 H 10. Flakers: 6'x5', 3'x6'6", drum Tablet Presses: STOKES, MANESTY, Rotary: 8'x70' to 2'x14' (12)

10 gal. B-P Dispersion jktd., vac., 20 HP 7 gal. B-P Dispersion [ktd., ram, 25 HP 2½ gal. Day SS Sigma jktd., vac., 10 HP 89 Littleford mixers w/choppers FKM 2000 D, 1200 D, 600 D, (4) SS Twin Shell 40, 30, 20, 3 cu. ft.

SS Ht. Exch.; 246,200, 125, 56, sq. ft.

seal, 2HP New 1979

FILTERS 42" Shriver poly, 50 ch., 4 eye 48" poly chambers, 11/2" cake, 4 eye (150) SS filter presses: 18",16",13",12"(7)

Sparklers: 3389, 18D10,8-6 CENTRIFUGES

48"x30", 40"x24", 316 88 auto-batch 40", 30", 26", basket, SS & R/L avail. P5000, P3400, P3000, P2000, Sharples 40"x60", 24"x60", 18"x28", 6" Bird DeLaval: NX 207, BRPX 207 Westphalla: SAMN 5036, SA 1435-076 HS38, HS24, S8, 316 SS B-P "Ter Meer"

MILLS/PULVERIZERS Chilsonators: all 88, 4LX10D, 7LX 10D, 8LX16D

Fitzmills: F20, F8, D6 (8) Mikro: 4TH, 3TH, 2DH, 28CB, 18H, 8MA 3-Roll Mills: 16"x40" to 4"x8" (9) Ball & Pebble: 8'x12' to 2'x2' (12) Colloid: 50, 25, 15, 10, 5, 1HP Raymond: 5057, 5047, 4237, 3036 DRYERS/EVAPORATORS

Belt Flakers: 48"x45', 20"x20"

Con. Vac.: 500, 100, 50, 40, 10, 2.5 c.f. Rotary Vac.: 130, 40, 20, 10 cu. ft. Vad. Pumps: NASH: CL 2003, CL 1003, AT 2004; L5, MD 674 KINNEY; KDH 150, KD 20, KB 27, Stokes: 212 H 10. S.S. Fluid Bed: 100 kg, 60 kg, 30 kg; S.S. Double Drum: 12"x18", 6"x8", S.S. Flekers: 6"x5", 3"x6"6", drum: 12"x18", 8"x8", S.S. Flekers: 6"x5", 3"x6"6", drum: 12"x18", 8"x8", S.S.

George Equipment & Machinery Co. 135 Manchester Place, Newark, N.J. 07104 Tel. (201) 481-0900 Telex No. 138944

CHEMICAL MARKETING REPORTER

October 27, 1986

(212) 688-8800

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?2344-Christian ribbon mixer, 36 cu. ft. steet jackal, .5 HP, unitized. 2342-Sheet extrusion line, Prodex 4.5", 24:1 L/D.

OHP, sheet die, chill rolf stack, Famco shear. 2343-NRM Turret Winder, 48-46 w/2 adjusto spee

22346- Sheet Coster, 54" steam heated. 22345-Berringer 4.5" screen charger w/hyd. pump, 22277-Fitzpatrick, D6, S/S screw leed, 7.5 HP motor. 22275-Groen 60 gal., S/S 25 psi.

2227 1-Will-Flo 226 gal., S/S, jkt. 60 psi 22278-U.S. Bottlers B-2 Vac Filler, S/S 22267-Thermo King reliroad car retrigeration system



22215-Wilmes Slatter Press, S/S, 38" dia.: 9'9" long, hortz, 5 HP, unitized, (2)

22252-UNUSED Bins, 4'6" OD, 8/8 75 cu. ft. (6 22252-UNUSED Tank, 100 gal., 73(498, 30" da., DH 22253-UNUSED Tank, 550 gal., 73(498, 4" OD, DH. 22256-UNUSED Tank, 1200 gal., 730498, 5" dia. x7" H, DH. 22255-UNUSED Tank, 1800 gal., 730488, 6"6" dia. x7"3"

22254-UNUSED Tank, 3,000 gal., T304SS, vac., 5'dia x 22258 Heat Exchanger, 40 sq. ft., 12" CS shell, S/Stubes 22213-Sweco, 48" single deck, \$/8. (5) 22214-Niagara, mod. 320-32, 350 sq.ft., 8/S VT, 8/S VL

REACTORS

20252-Unused Reactor, 800 gal., 3048S dimple ikid. 10138-Plaudier, 800 gal., T-316 L SS, 55 PSI int/150 PSI. 20928-Grighton, 4000 gat., 8-3 fol. 35, 35 FSI Fity 150 FSI. 20928-Brighton, 4000 gat., 816 S/S, 8-dia, x 7'8" st. skie. 15475-Brighton, 4000 gat., 316 SS, vacuum. 20287-GH Hicks, 4000 gat., 316 SS, pipe coll fkt. 20923-Richmod Eng. Reactor, 4600 gat., T3 16 stein/dad. Plauder 10,000 gal. reactors T3161, 100 psi int, 160 psi Plauder 15,000 gal. reactor T316L, 100 pal Int., 200 psi jkt.

MIXER/EXTRUDER 17654-AMK 25 gal. Mixtiruder, Sigma, ST 7.5 HP. 18298-J.H. Day 25 gal. Dispersion, 25 HP vari main, 10 HP

996-AMK 30 gel. S/S, jkl. Sigma, 7.5 HP Mein, 6 HF

screw. 21334-Ross 40 gal., S/S hot of jkt., Sigma 6" disch. screw

19826-AMK 50 gat, S/5 not of kt., Sigma 8" disch. scraw. 19826-AMK 50 gat, ST, jkt., Sigma, 10" disch. scraw. 17138-AMK 120 gat., ST Sigma, 11.5" scraw. 14832-AMK 150 gat., S/5 Sigma 15HP main, 10HP scraw 19494-AMK 150 gat., S/5 Sigma, 50 HP main, 10HP scraw 20116-AMK 150 gat., S/5 Sigma, 15 HP/10 HP 505327-New Aaron 300 mat 1730495 mit settingto. 603527-New Aaron 300 gal., T30453, mix extruder, Sigm jkl., up to 200 HP main, 75 HP hyd. screw. STILL INSTALLED... CALL NOW!

21350-B.P. 500 gal. Sigma ateel, jkt. 125 pai,150 HP, Hyd. tilt

MIXERS - PLOW

503755-Littleford, FKM 600D, SS jacketed, 25 HP 20754-Littleford, FKM 3000D 65 CF, S/S, full jacket. 19214-New Plaw Mixer, 60 cu. ft. 34785, jacket, 100HP. 20829-Littleford FKM 4200D, S/S, 87 cu. ft. JKT.

MIXER RIBBON

21120-Ribbon Blender, S/S, 10 cu. ft., jkt. SS, 150 psl. 20276-Read ribbon blender, 14.7 cu. ft. 304SS, 3 HP. 20816-Unused Day, 316SS, 23 cu. ft., 5 HP. 20189-Robinson, 25 cu. ft., 8/S, jacket, 10 HP. 20885-Int 134 cu. ft. S/S dbl. rbbon, 5 HP. (4) 20212-Haas ribbon, 36 cu. ft., S/S, 15 HP. 19266-Ribbon Mx 80 cu. ft. T304 SS, 5 HP (4) 19566-Howe, 115 cu. ft., sanitary S/S, double spiral ribbon. 20983-Strong Scott blender, 130 cu. ft., 304S8, 25 XP gear

1124-Ribbon Blender, 30455 jkl., 160 cu. ft., 30 HP. 20114-Ribbon Blender, 30455 jkl., 160 cu. ft., 25 HP. 20114-JH Day ribbon blender. S/6 ded, 75 HP., 480 cu.ft.

UNUSED CENTRIFUGES

21593-Sharples P5400 Sanitary Centrifuges w/200 HP motor, 25 HP backdrive, gearbox, 5" pitch conveyor, CIP, control panel (2) LATE MODEL

CENTRIFUGES

20827-Bird, 18"x24" steel, conical bowl. 20826-Bird, 24"x38" steel, con bowl, gearbox. 20819-Bird, 24"x38", 8/S, 15 degree, contour bowl. 20664-Bird 24"x60", H series, steel w/motor. 20384-8/rd 32"x 50", 8S T316 contour, 75HP 12883-Bird 36"x96" contour, 10 deg., T317 ELC. 20137-Alfa Lavel, NX 418-B31-60, 316SS, gearbox 17308-Dorr Oliver, 304SS, Mercomdi. 16L, 30 HP 13565-Sharples, mdl. P 600, gearbox, motor. 19767-Unused Sharples, 3 phase, P3000, S/S, carbide 20407-Sharples P2000 316SS, 20HP drive motor. 21359-Sharples P3000 w/gearbox. 20686-Sharples P3000, 52:1 gearbox, 8/S casting. 21725-Sharples, P3400, 8/S, gearbox & motor. 19249-Sharples, P5400, 316/3178S, 200 HP, gearbox.

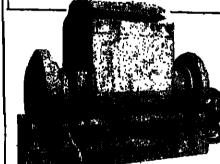
CENT-BASKET VERT.

21408-Deleval 22"x16" perf. basket hyd. drive. 15815-Deleval Mark III, perf. basket, 40"x24", 3165S, 30 HP, hydr., drive. 9446-Sharples Sludge-Pak, SP-5500, 40"x24" t centrifuge.

ROTARY VAC DRYER



22210-Bertrams, S/S 6'dia. x 12' dished heads, half pipe coil jacket 200 psi, 20/13 HP, unitized.



21459-Baker Perkins Mixer, dbl. arm, C/S, 300 gaf Geared both ends, 100 HP, mod. 18JUMMZ.

FILTER PRESSES

19846-Shriver P&F filter press, 12"x12" elum plates, closed delivery, 23 chambers.

20534-Sperry Filter Press, 30", alumn. 20539-Sperry filter press 30", 35 Aluminum pietes, 357 eq. 15370-Shriver 32" x 32", polypropylene, 27 pietes, retchet

closing. 15929-Shriver ALP, plate & frame, 18 36" x 36", S/8 receased plates. 20076-Sperry filler press, 36", cast iron plates, closed deliv.

19462-independent filter press, 42" x 42", polypropylene, 4 sys closed, 34 chambers. 20550-Sperry filter press, 42" Ehclcloser, 41 alum, plates.

Special Sale MUST MOVE STAINLESS TANKS

12,000 GAL., T304SS, 12'D 14' high, flat bottom, open top (16) PRICE \$8000 ea. FOB PA #20655

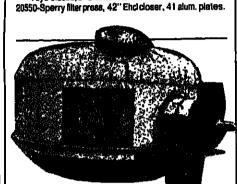
TANKS-S/S 21283-Tank, 8/8 vert., 1200 gal., 6' dla.x8', flat top & bot. 20551-Tank, SS, 9000 gal., agtt., 12' dla. x 14'6" H. 20655-Tank, SS, 12000 gal., 12' dla. x 14', flat bottom, open top. 17043-Jos Cat horz, tenk, 3048S, 16,000 gal., 12'6" dis. x 22'9'12" long, 10 PSI.

FILTER PRESSES

9846-Shriver P&F filter press, 12"x12" alum. platos. closed delivery, 23 chambers perry Filter Press, 30", alumn. 20539-Sperry filter press 30", 35 Aluminum plates, 357 sq. 15370-Shriver 32" x 32", polypropylene, 27 plates, ratchet

ctosing. 15829-Shriver ALP, plate & frame, 18 36" x 36", S/S recessed plates. 19799-Clow/Bethlehem filter press, 36", recess plates, 25

chambers. 20078-Sperry liter press, 36", castiron plates, closed deliv. 19482-Independent filter press, 42" x 42", polypropylene, 4 eye closed, 34 chambers.



117" Die., 75 Sq. FL, jacketed, agit. 15 HP, Side Discharge... Sil Herb Lendy (312) 350-2200

FILTER-ROTARY VAC.

15828-FE, inc. 36" dia.x12", S/S, string disc., 1/2 HP. 17477-FE, inc., 3' dia x 5', T316SS, belt disc., vac pump 1177-Dorr Oliver S/S, 5' dia. x 6'L. 11653-Oliver T-316SS, preccet 5'3"x6'. 19431-K.S. flexibelt, 6' dia. x 6' face, 316SS. 18392-Eimco belt filter, 8'x10', steel drum, w/Nash pumps 15827-Ametek, 8' dia.x14'0" face, maxi-belt, S/S. 17936-Eirneo, 3168S, 10' dia.x 14', knife discharge. 7283-Impcobell filter, 12' dia. x 12', 304SS, Nashvacuum 20251-K.S. T304, vacuum filter, 12 dia x 14 , 3048S. 20323-Dorr Oliver 11'6"x16' face, S/S cont. parts. 11486-Eimco 10'x10'rotery vac. filter.

PRESSES

UNUSED Manesty Express, 10 ton, 20 stations. 11602-Colton Press mod.260, 31 die stations, 1800 TAB. 21382-FJ Stokes rotary tablet, 15 station, 10 ton. 21418-Manesty rolary tablet, 16 station, 10 ion. 14425-Stokes Tab Press mod.#551, 51 station, 4 ion. 21417-FJ Stokes rotary, 27 station, 4 ton, double sided. 503881-Komerak Greaves, mdl. 75MSS briquetling press. 20.5" dia. x 4.5" (aca.

nator, 50 HP, mdl. HA-50-30-210. 18802-Stokes single pucchi press, 900-530-1 (T4), 12 (oi). 17224-Dorst compac., series TPA15, 20 tons. 10890-Stokes, mdl. R-4 press, 20 ton.

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DUST COLLECTORS

21125-Fabri-IJet jd.SQ9-4B bin vent, 42 sq. ft. 16398-Mikro dust collector, S/S, 63 sq. ft., mdl. 9-6-100.

pulse jet. 21153-EVO, bin vent, 72 sq. ft., 8/8, 5 HP 20253-Unused EVO pulse jet collector, mdi. 84BF009C, 90

21192-JH Day md. RJ-18RJ38, 125 sq. ft., CS, 3 HP. 21222-Fabri-Jet, mdl. SQ16-80, 151 sq. ft. 20398-Pulse jet collector, "FlexKleen, w/175 sq. ft., cloth, C.S.

21286-Mikro dusi collector, 285 sq. ft., S/S. 20268-Unused EVO Corp. pulse jet dust collector, mdi. 99BF030C, 350 sq. (L. 20255-Unused EVO Corp. dust collector, shaker type, rndl. MS049C10, 575 sq. ft.

SCREENS

21203-Sprout Waldron slifter, D10, 6 decks. 21150-Sprout Waldron, D10, 1 HP, 10 decks, S/S cont. 21167-Sprout Waldron, D10, 2HP, 10 decks, S/S cont.

LIQUIDATION SALE

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LARGE **POLYSTYRENE** PLANT

21875 - Bins, 176 cu. ft., S/S, cone bottom flettop, (4) 21891 - Bins, 450 cu. ft., C/S, epoxy lined. (8) 21904 - Bins, 450 cu. ft., C/S, epoxy lined. (6) 21905 - Bins, 500 cu. ft., C/S, epoxy lined, flettop, or

ngton cent. pump, C/S, 15 HP, 200 GPUs 44 psig (2) 21916-Union Pump-Inline, C/S, mod. 4x5x8.5 YCX, 4

21906-Edw Renneburg Rot. Dryer, S/S, steam heal

HP. (4)
21881-Heaters, C/S steam, type BNF 2420(8)
21914-Flotronics bin vent, filters, 122 sq.ft. 12&xx 21889-Katron Feeder twin sraw, S/S mod. 6400-159 21901-Sparkler filter, 352 sq. ft. C/S, mod VR-37-4 21882-Screw conveyor, 304 SS, 7" dia. z 11L 15# 21888-Strong Scott Rib Blender, 25 cu. ft., 5 HP. (3) 21920-Welex extruder 6", 30:1 L/D, 400 HP. 21870-Welex extruder 6", 30:1 L/D, 600 HP. 21876-Conair polletizor, S/S, mod. 1024, 40 HP. (3) 21874-Waler bath. S/S, portable. (4)

21887-Ross Static Mixer, 304S5, 3"x6 element (4) 21917-ingersol Rand Pump, in-line pump, C/S, 30% 21915-Goulds, C/S turbine pump, 200 HF. (2) 21913-Worthington cent. pump, S&S, 2 HP. (4) 21912-Union pump-inline, S/S, 7.5 HP (2) 21899-Pfaudier Reactor, 1,500 gal., 318L SS despi 21896-Plaudier Reactor, 10,000 gal. 316L \$\$ da4. HP. (4) 21900-Pfaudier Reactor, 15,000 gal 316L 85 dm

(kt. (3) 21897-Meial Arts Corp. vessel, 17,000 gal ver.

SS. (2) 21910-Tank, 840 gal., flat top & bottom. 21920-Modern Welding Tank, 4800 gal. holiz. nhh

21878—Gorman Rupp pump, centrifugsi, C/8mod.85 21878-Gorman Hupp pump, centrings, crames at 21871-Prodox extruder 8", 30:1 L/D rate, 600 lP. 21892-Buffalo blower, size 30, C/S, 10 lP (3) 21908-Buffalo exhaust fan, size 36, 1ype 8, 15 lP. 21880-Suter Bill Blower, C/S, 40 lP. (4) 21922-Buffalo blower, type 40-3CB, 40 lP. (4) 21894-Buffalo blower, mod. 45-3CB, 75 lP. (3) 21883-Bird, 32 k 50 centrifuge, 80:1 gearbox (4)



21883-Bird Centrifuge, 32x50, 80:1 geats

21893-Environeering scrubber, mod. A33-1400 21895-Tank, 850 gal. vert. coal far epoxy fired 21911-Tank, 5400 gal. vert. C/8 epoxy coaled fatigit bot. 21903-Tank, 50,000 gal. vert. C/8 epoxy, fetbol cot cal top. 21898-Brighton Corp. Tank, 12,000 gal. vert. sold

21902—Worthington compressor, mod. 488-3, wife its 316L 83. (5)

pps. (2) 21879 – Sweco sifter 60", mod. L86038, 25 P. 21923 – Kason sifter 60", mod. K60135, 518, 119, 21923 – Kason sifter 60", mod. K60135, 518, 119, 21884 – Flotronica Cyclone mod. FTHEC370, 1, 34, 51 12" dia. dish top. (3)

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30"X15" SHARPLES "TOROHADO GATG," 38 WITH HYDRAULIC DRIVE

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DOUBLE COME VACUUM SYCHESS DEDIETRICH GAL, 60 CU. FT. PFAUDLFRG/L, 70 CH. FT. DEVINE 316SS, (1) 30, (2) 70, (2) 90 CU, FT. SYSTEMS 316SS ROTARY VACUUM DRYER SYSTEMS; (3) 142, (1) 120 CU, FT. SHELF: 6 VACUUM DRYER SYSTEMS
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40 FILTER PRESSES 42" 42" 48" 86" POLY VACUUM BELT EXTRACTORS: 2 EIMCO 2'x12', 3 1655 VAC. BELT FILTER SYSTEMS 40 FILTER PRESSES 42" 43" 48" 56" POLY PRO, RI/L CAST IRON 4 PASSAVANT MIDL. 200 VAC-U-PRESS BELT FILTERS, 250 SQ. FT FIRE PREVENTION EQUIPMENT

INCLUDING: DIESEL POWERED FIRE PUMP...NEW IN 1984 ELECTRIC POWERED FIRE PUMP 150 HP 100 CU. FT. MUNSON SS DOUBLE RIBBON BLENDER SYSTEM LITTLEFORD MOL. FK/12000-0, 73,5 CU. FT. 70 CU. FT. DAY, SS RIBBON BLENDER SYSTEM

BAUERMEISTER TURBOMILL, 40 HP, COMPLETE SYSTEM FITZPATRICK MDL. DG DASO 7.5 HP COMMINUTORS 7.5 HP FITZMILL MDL. DKSO12 COMMINUTOR ENTOLETER MILL 5 HP, MDL. M1112G1-23

100'S OF PUMPS

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11 SS JKT. AGIT. KETTLES FROM 750 GAL. TO 5,000 GAL (1) 3,000, (7) 2,000, (22) 1,000 (8) 500, (2) 300, (1) 200, (1) 130, (4) 100, (4) 50, (1) 30 GALLON ALL REACTORS EQUIPPED WITH TW DRIVES, MECHANICAL SEALS MANY WITH VARIABLE SPEED DRIVES, GLASS RECEIVERS & GRAPHITE HEAT EXCHANGER STAINLESS STEEL 316 & 316 ELC

SMITH MOLECULAR ROTA-FILM MDL. 700-12-P, SKID MOUNTED SOLVENT RECOVERY SYSTEM

1,100, (7) 1,000, (7) 500, (2) 300, (1) 30, (1) 10 GALLON

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750 GAL. 304 SS READCO MIXER SIGMA
SHARPLES SS MODEL P.3400 CENTRIFUGE UNUSED (3)
GM' ROSENMUND (NUTSCHE TYPE) 316 SS FILTER
4,200 GAL. HAST C REACTOR 125 FV/175
UNUSED 1900 SQ. FT. HAST C HEAT EXCHANGER

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STAINLESS STEEL (1) 5,000, (1) 4,000 (1) 3,000, (0) 2,000 (3) 1,500, (4) 1,000, (1) 800, (7) 500, (1) 300, (3) 260, (5) 200, (1) 150, (3) 100, (3) 50 GALLON

HANTE-VORMERE V REFORMERS A CHERTA CREMENTAGE DE VICTA (DES EACHARDONAL STREET

MODEACH AND THE SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELECTION OF A SELEC (3) 200 CH, F1 58 ROT, VAC DRYFR SYSTEMS 10% AT HIMCO BOY, VAC, BUTER (1) LAGE MODEL HE VACE PUMP WARRELING MOO MAC.

ाहरूम हो होतार र प्रश्नात REACTORS: 15,000 CAL STOLESS ASST. 10'Ga 23' 4,000 GAL, GYLBODY, TOOFV/150FV JET (4) 3,300 GAL, \$5.60/30 HP AGET, 110 PER BET. W/COILS

(1) 3,300 GAL. SS 30 HP. 6TW, 300 PSI INT. (7) 5,555 GAL. 35 35 HP, 51W, 555 HS W/COILS (2) 2,000 GAL. L SS, 75/200 PSI JKT TANKS: 6,000 GAL., 4,000 GAL. MONEL V (4) 4,700 GAL. G/L PFAUDLER CHEMSTORE 30 PSI

SS HEAT EXCHANGERS FROM 100 TO 500 SQ. FT. MANY MISC ITEMS Corn Syrup/Starch Plant 200,000, 150,000, 50,000 LBS /HR PACKAGE BOILERS 6'x 50' 304 SS 5'x 30' CS ROT. HOT AIR DRYER 4'x 31', 72 TUBE SS ROT STEAM DRYER 24,000 SQ. FT.TRIPLE EFFECT EVAP. TI TUBES 600 SQ. FT U. S. AUTOJET FILTER CEILCOTE LND (3) 500 SQ. FT. HERCULES 316 ELC PR/LF FILTERS (4) 12'x 15' EIMCO BELT CS ROT. VAC. FILTER (2) 8'x10', 7'6"x16' EIMCO 316 SS PRECOAT FILTER (4)

500,265 SQ FT. 316 SS PLATE HT. EXCHS. DUCON SS WET SCRUBBER 11500 CFM 9,000' 6,500, 5,500, 3000 GAL. SS AGIT. MIX TANK (16) 7,000 GAL. 316 SS CONE BOTM. TANK 10'8"x 9'6" 3000 GAL 316 VAC.TANK15 PSI/FV EQUIPMENT MUST BE MOVED IMMEDIATELY

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250,000,000 CU. FT./DAY

COMPRISED OF TWO TRAINS ON 60 ACRES OF LAND WE WILL SELL ENTIRE FACILITY OR INDIVIDUAL PIECES OF EQUIPMENT

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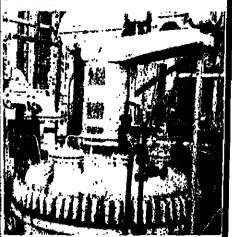
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October 27, 1986 CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

, October 27, 1986



KETTLES-REACTORS, SS 30,000 gal. 304SS fermentors, 14' x 24', 25 psi/vac

colls, 200 HP agit. (4) 5,000 gai. 30488, atm. int., 75 pel jkl., agit. 4,100 gal. 304SS kettis, 16 psi jkt.., 5 HP agit. 3,500 gal. 316SS kettis, 20 psi jkt., 7% HP agit. (2) 2,500 gat. 304SS reactor, 75 pat/FV int., 180 pat jkt. 1,500 gat. 304SS kettles, jktd., 5 HP agit. (3) 1,500 gat. Praudier 316Li 8S reactor, FY/180 pat, 5 HP Agit. (2) 1,500 gat, P1900er 316U 85 resctor, 17 / 170 pet, 5 hr Agn. (4)
1,150 gat, 30483 reactor, 15 pet int., 25 pet ikt., 5 HP agit.
900 gat, 30483 reactor, 75 pet irt., 150 pet ikt., agit.
600 gat, 30483 reactor, 180 pet int., 75 pet ikt., colle (3)
500 gat, 30485 reactor, 180 pet int., 150 pet ikt., 6 HP agit. 300 get. 31688 reactor, 75 pel/FV int., 60 pel jkt. (50)... 316\$8 and 304\$8 reactors and kettles from gallon to 400 gallon... call for list.

BIG PFAUDLER 316SS REACTORS

(3) 15,000 gal. Plaudler, 31688. 12'6"x 15', 100 psi, 200 psi ikt. Agit. (4) 10,000 gal. Plaudior, 31655, 11'6"x 12'4", 100 ps), 180 ps), jkt. Agit.

HEACTORS-GLASS

2 gel. Pfaudier, 750 pel/FV, 700 pel jkt. 20 gel. Pfaudier, 35 pel, 100 pel jkt., egit. (2) 30 gel. Pfaudier, jktd. 50 gal. Pfaudler, 25 psi, 100 pei jkt. 56 gal. Pfaudler, 100 psi/vac., 85 psi jki., agit., 1975 100 gal. Pfaudler, 25 psi, 90 psi jki., agit. 150 gal. Pfaudler, 25 psi/vac., 90 psi jki., agit. 300 gal. Glascots, 25 psi/vac., 90 psi jki. 300 gel. Glescote, 25 psi/vac., 90 psi jkt., vari-drive sgit. 500 gal. Pfaudler, 100 psi/vac., 90 psi jkt., vari-drive sgit. 500 gal. DeDietrich, 65 psi/vac., 105 psi jkt., 5 HP agit. 750 gal. Pfaudler, 25 psl, 85 psi jkt., 5 TW agit. 1,000 gal. Pfaudler, 100 psi, 90 psi jkt., 10 HP agit. 1,000 gal. Pfaudler, 75 psi/vac., 90 psi jkt., 10 HP agit. 1,500 gal. DeDietrich, 100 psi/vac., 90 psi jkt., 15 HP agit. 2,000 gal. Pfaudler, 100 psi/vac., 90 psi jkt., 15 HP agit. 2,000 gal. Pfaudler, 100 psi/vac., 90 psi jkt., 15 HP agit. 2,500 gal. Pfaudler, 150 psi, 90 psi jkt., 17 W6 agit.

NEW LIQUIDATION! CHEMICAL/POLYMER PLANT....ILLINOIS BUY BEFORE REMOVAL AND SAVEII

Bird 32"x 50", centrifuges, 316\$S, contour (2) Welex 8" Extruder, 700 HP, 30:1 L/D (5) Welex 6" Extruder, 400 HP, 30:1 L/D (2) Consir 24" pelletizer, 40 HP (2) Renneberg 5'x 25' 304 SS rot.

dryers, 10 HP, (3)

Sweco & Kason 60" screens, SS (2) K-Tron 7000#/hr. twin screw volumetric feeder, SS, (5)

Pfaudier 1,500 gal. 316L SS reactor, FV/-180 psi' 5 HP agit. (2) Pfaudler 10,000 gal. 316L SS reactor, 150 psi/FV Int., 180 psi jkt., hyd agit (4)

Worth. Plant air comp., 323 CFM @ 125 psi, 75 HP, Model #4-BB-2 (2) 17,000 gal. & 12,000 gal. 316 SS Tanks (3)

PHONE (609) 267-1600

PERRY for

Process

DRVERS

Bisw : Knox 6'4"x 40' 88 vac. dryer, 600 cu. ft. Alaw Knox 36"x 20" vac. dryer 316L 88, 72 cu. ft. Blaw Knox 66"x 36' vac. dryer, nickel Mathia 24"x48" flaker, chrome plated Sandvík 48' 'x24' 95 belt flaker, UNUSED Sargent 60" x 45' \$8 conveyor dryer Stokes 8" x 11" drum flaker Blaw Knox 32" x 90" dbl. drum Buffovak 42" x 120" dbi. drum, 160 psi teromatic #ST-5 fluid bed dryer, 5/10 KG Witte 36" x 10' fluid bed, 8S, sanit.-cooler Stokes 36 sq. ft. Lyophilizer freeze-dryer Renneberg 36" x 20" rotary dryer, 316 88 Renneberg 5'x 25' 3048\$ rot, hot air dryers, w/cy/ 96" x 50' Louisville \$8 rotary dryer 10' x 100' GATX rot, steam tube drysrs, 140 psi (4) Wysemont #VTL-24 Turbo-tray dryer, 304SS P-K 5 cir. ft. vac. dryer, 30488 P-K 20 cu. ft. vac. dryer, 304L SS (2) Abbe 30 cu. ft. 304\$\$ vac. dryer Devine 110 cu. ft. 304 88 vac. dryer Pfaudier 165 cu. ft. glass-elect vac. dryers (2) Abbe 325 cu. ft. 31688 vsc. dryer Davina 370 cu. ft. 316\$8 vac. dryer Devine 564 sq. ft. vac. shelf dryer Miro 30" 86 a pray dryer Turbulaire 48" x 7' apray dryer Bowen 72" spray dryer, SS

Bowen 96" spray dryer, SS FILTERS-VACUUM

36" x 1" Dorr-Oliver, fiber glass 9 sq. ft. 36" x 1" Ametek, 316 58, 9 sq. ft. 40" x 3" Bird-Young, \$8, 48 sq. ft. 4" x 16" Eimco, 31688, 64 sq. ft., horiz. 5' x 3' Ametek, SS, 55 sq. ft. 6' x 4' Elmco, "Elmcomet" polypropylene, UNUSED 8' x 8' Elmco, SS, 200 sq. ft., precost 8' x 8' Elmco, \$5, 200 sq. ft., precest 8' x 10' Dorr-Oliver, 250 sq. ft., 3168S, precest 8' x 12' Elmco, 3168S, precest, 300 sq. ft., (3) 8' x 14' Dorr-Oliver, 3168S, precest, 350 sq. ft. (2) 10' x 10' Elmco, 3168S, precest, 314 sq. ft. 11'8"x 16' Elmco, 95 contacts 12' x 14' Kornline, 3048S, 525 sq. ft., flexibelt disch. (2) 45' dis. Elmco titting pan. vsc. filter, 316 SS

Detroliver 8' x 12' pic cost refers vectors liliera, 3165S contacte... Fricon Striked, DIG SAVINGSI

FILTERS-PRESSUME

12 eq. ft. Amstek/Niegera #12, 6S 54 sq. ft. Funds, SS, jktd. 65 sq. ft. Artisen "Dynamic" filter/wesher, SS (2) 140 sq. ft. Niegera #36-140 316 SS (2) 600 sq. ft. U.S. Autojet, 3165S, eanit. 1000 sq. ft. U.S. Autojet #1000, 304SS 30" Secret filter reset 11 cv. 30" Sperry filter press, 11 cu. ft.
36" Shriver filter press, 546 sq. ft., hydraulic
42" Shriver filter press, 777 sq. ft., hydraulic
48" Shriver filter press, 777 sq. ft., hydraulic
48" Shriver ALP recessed filter press, SS, 276 sq. ft.
48" Clow, polypropylene recessed, 1500 sq. ft.

PULVERIZERS

.Mikro #6MA atomizer, 5 HP Mikro #6MA atomizer, SS MRVO #5MA atomizer, SS Mikro #20H pulv., SS, 5 HP Paliman #REF8 pulv., 50/75 HP Abbe porcelain pebble mfrz... 36"x42", 36"x48", 42"x50", 43"x60", 50"x48" (7) Raymond 50" 5-roller hi-alde mill., 1681, UNUSED Raymond #5058 Hi-alde roller mills, dbl. whizzer (2) Raymond #73612 Hi-alde roller mill, dbl. whizzer

NEW LIQUIDATION DRY DETERGENT MFG. EQUIP. ..NORTH JERSEY!

5-Kleissier dust collectors: 2000, 1400, 535 sq. ft. 5-Cleveland 120 cu. ft ribbon blenders, 60 HP 5-80° C/C steel bucket elevators 5-Kleissier beg type dust collectors 2-Box Filling Lines/ 160, 120 Boxes/Min. 1-J.H.Dey 200 gal. sigma blade mixer, ixtd., 40 HP 2-Moyno Pump # ILBSSQ, 5HP.
2-FMC-Stokes form, fill & seal units 2-Eriez #62B vibratory feeder, \$8, 60° x 18" x UNIUSED

1-Hissar volumetric powder carton filler. 2-Standard-Knapp case gluers 1-Hercules drum mixer 1-200 gal. 88 tank, jkt, & egit.

CENTRIFUGES Bharples P-5400 D-Canter, 31695, Carbide Illes, late (2) Sharples P-3400 D-canter, 31695, tiles (2)

Sharples P-5000 D-canter, 31685 Sharples P-660 D-canter, 31685, back drive Bird 12" x 30", 31685, Decanter, 20 HP Bird 18" x 28", 316\$\$, Decanter (3) Bird 18" x 42" Decanter, steel, 10/30 Bird 24" x 38" Decanter, 30488, contour-10 Bird 24" x 38" Decenter, 316SS, contour (3)

Bird 24" x 60" Decenter, steel Bird 24" x 86" Decenter, 8S, 125 HP Bird 24"x 96" decanter, 304SS, carbide tiles, UNUSED (3)
Bird 32" x 50" Decenter, Monel, contour (2)
Bird 32" x 50" Decenter, 30488, contour
DeLaval NX214-318 Decenter, 30488, 20 HP (2)

Sharples AS16V "Super," 8S (5) Sharples AS26V "Super," SS DeLayal BRPX-213-30, 316SS separator/desludgers (3) Westfalls SAMN15037, Desludger/Separator, 316SS Westfalls SAMM10037, Desuloger/Separator, 31 Westfalls SA14-35-076 3-way separator, 316SS Krupp 10" pusher, 316SS, 15 HP Baker-Perkins 19" pusher, 304SS, 40 HP Shaples 48" T-1600 auto-basket, 100 HP Tolhurst 48" Batchmaster, rubber lined, 30 HP Sharples 48" Tornsdo-Matic, 5S, 25 HP Delaval 48" Mark 111, 316SS hyd.

CENTRIFUGE PARTS... Sharples, Bird, Del.avai, etc. EVAPORATORS

2.4 eq. ft. Rodney-Hunt 8S, 3 HP
21 eq. ft. Rodney-Hunt Turbafilm #4, SS
57 eq. ft. Rodney-Hunt, 304 SS, Turbafilm
100 eq. ft. Praudler, 31 6L SS, wiped film
600 eq. ft. Goslin-Birmingham dbl. effect, SS
854 eq. ft. Burlovak dbl. effect, SS 1688 sq. ft. Roger dbl. effect, SS Swenson 316SS catinuous crystallizer, 9" x 14"

TANKES IN VERSSHIELD

30,000 gal., 3048S, 14' x 24', colls, 200 HP agit. (4) 20,000 gal., 3048S, 12' x 24' (2) 17,000 gal., 3048S, 11' x 24' (3 17,000 gal., 316L8S, 14'x 13', Agit. (2) 12,000 gal., 316LSS, 12'x 14', Agit. (5) 10,500 gal., 316LSS, 8' x 25' 10,400 gal., 310t. 55, 6"x 25" 10,400 gal., 30455, 10"6" x 16", agil. 8,000 gal., 30455, 10"6" x 12" 5,000 gal., 30455, 9"x9", 25 HP agit. 3,500 gal., 30455, 8"x9" 3,000 gal., 30455, 7"x 10", agit.

WOXERS. BLENDERS

3.5 cu. ft. Henschel #FM15D, 17/20 KW 11.5 cu. ft. Henschel #115JSS, 92/46 HP 13.7 cu. ft. Lodige \$W600/K1200, mix/cool comb. 20 cu. ft. P-K twin shell SS

20 cu. ft. P-K twin shell SS
35 cu. ft. Day Nauts, #NBX350, SS
52 cu. ft. Nauts 304SS mixer (2)
60 cu. ft. Gemco., TW SH, Sanit, SS
69 cu. ft. Patterson dbi, cone, SS
70 cu. ft. Day Nauts, #NB700, 10 HP
75 cu. ft. Day Nauts, SS, jktd.
75 cu. ft. Robinson SS fibbon blender, jktd.
98 cu. ft. Day Nauts, SS, 1981
110 cu. ft. J.H. Day, dbi, ribbon, 316SS
120 cu. ft. Cleveland ribbon blenders (5)

110cu, R. J.-R. Day, dol. Indon, 31038 120cu, ft. Cleveland ribbon blender, (5) 144cu, ft. 30488 dbl. ribbon blender, 30 HP 169cu, ft. Pfaudler, dbl. cone, glass steel jktd., vacuum 200cu, ft. Young, ribbon, 88 316cu, ft. Sprout-Waldron ribbon blender, 88, jktd.



(2) Sharples P3400 D-Canter, 316SS, back drive, little use since rebuilding!

NEW & UNUSED 14/OCESS FOUR., 1982. IN OTHORNAL PACKING ... SOUTH CAROLINA, CALL Phone (609) 267-1600

BALERS, Dispozapak #D600 balers, (2) BAG PACKER, Howe-Richardson #G-S-17 sank automatic bagging system SS contacts 31NS, 304L SS contacts, 1300 cu.ft./9720 gal

ENTRIFUGE, Bird 24"x96", 304SS, Hodel 15 solid bowl continuous, 10 deg. conteur bowl Tungsten carbide tiles on conveyor, 150 HP

CHLORINATION SYSTEM, Wallace & Tiernan COLUMN, 46" dla. x 15'9", 304SS CYCLONE, DuCon Model 700/175 30488 be efficiency cyclones, size 210, Type YM (8) DRYERS. Nooter 4' x 14' rotary vac. dryer, 3151

SS shell and jacket, incolor ribbon soil

ASME 100 pai/FV int. & Jacket, 100 HP EEDERS, Acrison gravimetric weigh (seden. Model 403-15,000-3,000-BDF-4, 30488

FILTERS
-Emco 4x12 Beit Filter
-Sparker Filter Molf # 16-D-4 98 jkt./ 33D 12/ 99 8-6
-U.S. Autojet filter SS 50 sq. ft.
-Entel 12" 98 filter press
-Harcuses Filter press
-Bird (Plennevis) Filter 88, 12" wide x 17' long
-Sparry 42" Plypro Filter Press 48 Chambers
-Shriver 38" ALP 316-88, 41-48 Chambers (2)
-Evirex 88 Rotary (liters 6 x 6 URNACE. C-E Air Co. "Cor-Pak" thermo on dizers, direct gas fired AIXER, Air mix biender system, Koppers-Sprod Waldron #36-50, 500 cu.ft., 304\$\$ MIXERS, Webb, 59" W x 15"L twin shaft paddle

mixers or pug mills, 304SS contacts, (2) ACKAGING SYSTEM, design to fill begs, pulltize, shrink wrap, etc. automated system. PULVERIZERS, Mikro #4TH pulverizers, 125 # drive, (15)

"ROBERTONE". PART SECTIONS OF SECUMENDING MANNER COLLEGE T. Make ... \$3334 Jan Mar A CHON 4000年2月37日 福克索斯 4年 Nother But by St. A. . 2 All PARABO, GARI MARK PARASA, 60 (CER) 2617-1600

(2) Munson 300 cu.ft. blenders, 104" db. #TS-300GB, pkgd.

(1) Munson 110 cu.ft. blender, 90" dis #700/110, pkgd. (2) Munson 90 cu.ft. blenders, 80" dls. #7TS90, pkgd.

(2) 400 cu.ft. Gruendler ribbon blenders (2) 215 cu.ft. Cleveland ribbon blenders (2) Eirich 10' dia. Intensive mix mullen motorized pan and mullers

(2) Komilne dbl. cone blenders; 320 cu.fl (10' din.), 69 cu.ft. (6' dia.) (3) Gruendler hammermills, 150 HP, 1960 2) Gruendler hammermills, 100 HP, 60 HP

Mikro #8D atomizer pulverizer, 30 HP 1) Mikro #4TH pulverizer, 60 HP (2) Saw tooth brakers/crushers (2) St. Regis baggers

(1) "Push-Pull" ralicar unloading system (25) Flexkleen, Dustex, etc., beg type dust collectors 2) Box sifters

(2) DOX SIRETS
(1) Handling system w/(2) 2000 ib. elements, 80' powered roller conveyer, elements, 15 ALSO...leboratory with lab appearing to bles, equipment, etc.; motor content units; Gardner-Denter with the content units; Gardner-Denter with the content units; Gardner-Denter with the content units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardner-Denter units; Gardn compressor; etc., etc.

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BLENDERS & MIXERS

Gemoo 88 f.cu. ft. dble. cone vac. dryer Patterson-Kelly 3 cu.ft. twin shelt vac dryer 88 Stokes vac shell dryer 48.9 sq.ft. (?) Pfeudier 2.5 cu.ft. GJL dbl. cone vac. dryer Standard Heres 4*x30" Rotary dryer 88 Bowen Spray Dryers 7½ 2.5 '85 Agromatic fluid bed 6.8. dryer Model 100ST 20 Patterson-Kelley 5 cu.ft. 88 Contoel Vac Dryer Stokes 5*x50" Rotary Vac Dryer, Jktd, 88 Gemoo dbl. cone vac dryer 10 cu. ft. 98 Patterson Kelley Twin Shell vac. dryer 75 cu. ft.

FILTERS

GRINDERS & MILLS

-Patterson sisel (ktd ball mill (5) -Ross 3-roll mill 4½ x 10" -Premier Colloid mill MdL, KSIF 40HP 316SS -Fizmill MdL, No. D-6/DSAO/12 30HP SS Simpson Musiler 6"x5" size 2 VD mixer 20 HP

"Sweed Separator /48"/30"/24"/18" SS Greered Coloid Mill, 3 HP

THIS IS ONLY PARTIAL LISTING

NEW ARRIVALS -Chromolox Hot Oli Heaters 20 & 40 KW complete system UNUSED Patterson Kelty 30 cu. ft. fwfs shell blander juid \$3 w/int. bar -Patterson 3"x4" jkt. Ball Mill -Pk 1 cu. ft. Twin Shell 88 500 lb. Dens.

BLE NDEKS & MIXERS

-150 gal. Bigme Blade Mixer, CS, jktd.

-Readco Sigme Blade Mixer 10 gal. SS Duel Level (Like New)

-Readco Sigme Blade Mixer SS

-Baker Perkina 300 gal. Sigme Blade jktd. vac. mixer

-Readco 3 gal. SS Sigma mixer, jktd.

-Patierson Kelly 1500 cu. ft. CS blender 75 HP

-Paul O. Abbe 90 cu. ft. SS Syanit, jktd. vac. blender 50HP

-Ruste Mixer 70 cu. ft. SS 10 HP (2)

-Devine 100 cu. ft. Dble Cone Blender, C/S

-Baker Perkins 150 gal. C/S fittd vac. flusher -Mateer Filler Model No. 33A Auger Typs, 95/senit Potterson Kelly 40 cu. ft. Twin Shell Blander SS with Liguid/ CENTRIFUGES

-Bird Centrifuge CS 40" x 60" Solid Bowl w/dr/ye
-Bird Centrifuge CS 18" x 80" Solid Bowl w/dr/ye
-Bird 36":350" 34783 Contour Bowl
-Sharples 12" 85 Lab Model/Brighton Lab
-Sharples P-6000 decenter 53 100 HP

-Toutils Cone Blander
-Pattarson Kalley Twin Shell 1 cu., ft. vac. processor 8S
-Alpine Salve Model # A-32-100 LS
-300 gat. 38 Dispersion Tank (5D)
-800 gat. 316 3S Reactor 42/PSt
-Fitzpatrick Fluid Bed Dryer 83 Model # 75 Lab
-Reitz disintegator 85 5 H.P. 865 R.P.M.
-Autoclave 200 gat. SS 115/350 -Funda Filter 4' dia., 38, jktd. w/20 HP Drive -Aeromatic Fiuld Bed Dryer Lab Model #\$T-15 -Aeromatic Spray Dryer Lab -Colloid MII 5 HP SS

DRYERS
-Jeffrey Fluid Bed Dryers 2°x20° 88 - (2) Available
-Plauder Conical vac. dryer G/L 72 cu. ft. camplete system
-D&W Rotary vac. dryer, 316 98, 2°x 7°
-Gemco 83 i cu. ft. dble. cone vac. dryer -Colloid Millo HP 35 -Strong Scott Rotary Vac Dryer, 83, 3x12 Solidaire -SS Kettles 400, 300, 200, 150 (25) -Buker Perkins 100 gal. CS jktd. Sigma Blade Mixer -8 sq. ft. Scrape Nail SS Hest Exchanger -Artisan 1 sp. ft wiped film 85 complete system -Ross 15 gal. SS jktd. mixtruder 7 ½ HP Mill. AMK 15 -Micro Atomizer SS 5HP XP Mdl. #5MA

RIBBON BLENDER -Abbe 40 cu. ft. SS clad ribbon blender -Strong-Scott 200 cu.ft. CS ribbon blender -J.H. Day 40 cu.ft. Ribbon Blender, S/8 (3)

PRESSURE LEAF FILTERS

-760 sq.ft. U.S. Autolet, Mdl #750, 316 SS

-Pronto Filter SS 30¹¹ Dia, 450 psi
-Industrial Filter 100 aq.ft. Type 122 ID 31 Model OMD
-Enzinger leaf filter 8S 360 aq.ft.

PEACTORS

-4000 gal.316 SS reactor 90/500 psi (4)
-Pflauder 2000 gal. (ktd reactor 150 psi/75 psi
-Norwalk 3000 & 750 gal. SS reactor dimple [ktd FV/50
-2500 gal. SS reactor 90/50 psi
-Pfaudler 9200 gal G/L Reactor 90/90 psi Unused
-Downington 1500 gal. Monel Clad reactor 55/70 psi
-Glascote 3000 gal G/L Reactor, 90/100 psi
-13,500 gal. 304 Ele Dim., Jktd, Roactor, 30/100 psi
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J.Little Mercer Co., Inc. 254 Hornbine Rd., Rehoboth, MA 02769 617-679-1901

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STOKES MICROVAC VACUUM PUMPS
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id-Young 304EEC, Rol Vac Shriver & Sperry units
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J50 cal RQUIPMENT CO. INC.
PO Box 300, Montrille NJ 07045
701(135-9770-17:3-) TELEX 136357

Tanks: 250-1400 Gal. storage & mixing, S/S & fiberglass 5000 Cal. 304 B/S alorage tank, vertical, closed, dished hds. (2) Richmond 3000 Gal. 8/S Resctore, 60/40 PSI, 20 HP. (3) Plaudler 30 Gal. 8/S Resctore, 60/40 PSI, 20 HP. (3) Plaudler 30 Gal. 8/S Resctore, 60/40 PSI, 10/16 XV V/S. Hercules 500 Sq. Ft. "Roto-Jet" Filter, 316 S/S, 60 PSI. Jacobson 90-8-11 "Universal" Hemmer Mill, 100 HP. (2) Entoleter Type EIM "Centrinil", 48" Dis., 316 S/S, 150 HP. Simpson "Rotter" model 851 Sitter, 316 S/R, alogie deck. Pitzmill, 316 S/R, 00/KAS012, 20 HP. Holo-Filte Screw Dryer, 18" Dis. x 20" L., C/S, Jkt. trough. Chromelox 200 KW Hot Off Unit. (2) Chromelox 20 KW Hot Off Unit. (2) Chromelox 20 KW Hot Off Unit. (2) Chromelox 20 KW Hot Off Unit. (3) Chromelox 20 KW Hot Off Unit. (3) Chromelox 20 KW Hot Off Unit. (3) Chromelox 20 KW Hot Off Unit. (4) Chromelox 20 KW Hot Off Unit. (4) Chromelox 20 KW Hot Off Unit. (4) Chromelox 20 KW Hot Off Unit. (4) Chromelox 20 KW Hot Off Unit. (4) Chromelox 20 KW Hot Off Unit. (5) Chromelox 20 KW Hot Off Unit. (5) Chromelox 20 KW Hot Off Unit. (5) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (6) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chromelox 20 KW Hot Off Unit. (7) Chrome Starling 12 KW Hot CB Unit.
Hockmeyer 50/25 HP High Speed Disperser 8/8, XP #2 Spd.
(3) Susameyer model 8RS Sand Milks, 9 HP XP.
Afforehouse-Covine 12-30 & 10-38 Sand Milks, 40 & 25 HP XP.
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110 Cu. Ft. C/S heavy-duty ribbon blender, kt. 28 NP.
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Votator; [2) 4"x46" L. Tubes, 316 3/8, 15 HP.
Dorr-Citiver "Web-Trol" 6"x8 Rot. Vac. Filter, 3/8, model F-2.
Turbu-Film 1, 13 Sq. Ft. Lab evaporator, 216 3/4, 1 PP charpeter, Nichols/Niro 10 ft. Dis. Spray Dhyer, 128 #/ftr., all 8/8.
Baker-Perfora & Readico dib., ares mixets, 2 Vita 38 gal, C/8, 8/8".
Hent Exchanger 483 sq. ft., 304 8/8, 76/75 pal.
(2) Rietz praireaker, UNUSED Nodel PR-12, C/8, 18 NP. in

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SELECT used machinery

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(12) 40" x 60" Bird decanter, 316 S/St, 15/3 deg. contour, 5" pitch, single lead conveyors w/Stellite hard surfacing, 80:1 gearbox, 100 HP V-belt main motor drive. New late 60's. Excellent condition. Limited Use. Immediately Available from

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Stainless Steel, mdl L-12, steam heated, 48" dia S/ST trays & sides //heater controls.

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(2) Blaw Knox designed double drum dryers, 18" x 48" & 36" x 120", chrome plated, each w/vacuum chambers & vacuum pump package. Excellent condition. Ready to Ship.

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Model N-22, 8' dia trays 22 high, with stainless steel contact parts. May be shipped in one plece. Steam heated.

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Ametek 8' x 12' rotary w/belt discharge, 316 stainless, new 1974 - Excellent condition. -Ametek 5" x 8½' rotary w/beit discharge, 316 stainless. New 1974 - Excellent condition.

STAINLESS DRYER

ouisville stainless steel steam tube dryer, 8' dia x 40', stainless steel clad shelf w/stainless steel steam tubes.

Also Available:

Roto-Louvre mdl 900-32, 9' dla x 32' long, steam heated, 30 HP motor, all fans & Flex-Clean dust

CRYSTALLIZER

Titanium contact parts, 8000 lbs p/hr capacity. New 1976. Compiete and still installed.

RAYMOND ROLLER MILLS * * * Just Purchased * * * (3) Raymond high side roller milis, model 5057, double whizzer separator, fan; feeder, cyclone, duct work & bucket elevator.

LARGE SHARPLES SUPER DECANTERS

(2) Model P8100 Sharples Super Decanter, 316 S/ST, carbide tiles, 250 HP main drive, 126:1 gearbox w/backdrive. New 1979. Complete. Excellent Condition.

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Jeffrey fluid bed dryer, 5' x 20'. 304 sanitary construction, complete installation including fans, dust collector, S/ST scrubber & controls.

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Industrial Filter Sysytems, 600 200 sq. ft. each, dry cake discharge, vuicanized rubber lined tank w/316 S/ST filter leaves, completely automated w/computer controlled actuators. Like New Condition

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(1) 8500 gallon 316 S/Tt reactor, 30 PSI/full vacuum internal. 15 PSI jacket, 45 PSI 316 S/ST colls, 10/15 HP 2 speed turbine agitator, S/ST overhead condenser. New 1977. Still installed. Excellent condition.

STRONG SCOTT SOLIDAIRE DRYERS

Model SJS-24-16, 24" dla x 16' long, 304 stainless, dimple jacket, 50 HP vari drive.

Model SJS-20X16, 20" dia x16" long, 316 stainless steel, Jacketed. Model SJS8X52, 8" dla x 52" long stainless, jacketed, pitot size. Stainless steel mdi SJS-36-22 w/acket & 40 HP drive

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Link Belt Roto-Louvre Dryer10'3' ' x 36' long, mdl #1003-36, complete system incl 50 HP drive, firebox w/20,000,000 BTU gas burner, all fans, duct work & controls, multi-cyclone collector & Sly 30,000 CFM baghouse. Excellent Condition Still Installed.We will load - Call for FOB Pricing

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(1) 2' x 3', T304 sanitary stainless, complete station w/vacuum receiver, pump, mix tank & Nash vacuum pump. Rebuilt. (3) 10' x 16', 316 stainless steel, 100 HP Roots vacuum pumps, receivers, interconnecting piping, etc. Rebuilt.

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October 27, 1986. CHEMICAL MARKETING REPORTER 56.

CHEMICAL MARKETING REPORTER

October 27, 1986

CMR MARKETPLACE

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Continued from Page 39

ican Apollo) Santos, 9/26 nerican Shpg 100 dms (11,019 lbs) (Santa Caterina)

(Koln Express) Bramerhavon, 9/23. METHYL PARABEN 202 dms (22,288 lbs) (Zim Tokyo)

METHYLENE GLYCOL 1 bks (7,054,087 ibs) (Stolt

Vincita) Aratu. 9/30. MISTOLIN LIQUID Olberia Foods 3,491 cs (93,920 lbs)

NOCHLORACETIC ACID FLAKES Leschero 1,188

hgs (134,260 lbs) (Duissaidorf Expres) Aniwerp, 9/

MONOETHYLENE GYLCOL Gantrade 1 bks (9,225,230

lbs) (Porsunger) Jubaii, 9/21.

MONOPOTASSIUM L ASPARATATE HYDRATE Kyown Hakko 25 dms (3,086 lbs) (Louis Maersk) Kohe, 9/25

MONOPROPYLENE GLYCOL 1 bks (1, 101,782 ba) (San-

dra Farber) Tarragone, 9/21. MONOSODIUM GLUTAMATE Alinomoto 720 dms

(77.999 lbs) (Minorva) Santos, 9/18. 3,240 bgs (246,809 lbs) (Bacol Santos) Santos, 9/24. 2,520 dins (507.001 lbs) (Bacol Santos) Santos, 9/24. Plizer 2,160 bgs (114,048 lbs) (Santa Catarina) Santos,

Von Scheven 1 con (40,565 lbs) (Bacol Santos) Santos,

Allnomoto 3,800 bgs (197.753 lbs)(Itape) Santos, 9/24. APHTHALENE DERIVATIVES Meiko Warehousing 30

dms (Olbs) (Tohbel Maru) Kobe, 9/22.
NATURAL BARIUM SULFATE Ore & Chemical 20 pkg

(40,812 lbs) (Evor Greet) Hamburg, 9/24. NATURAL MENTHOL CRYSTALS Sercom 20 dms (2,403

bb) (American Apollo) Santos, 9/26
NEOPENTYL GLYCOL Huels 1,000 bgs (45,873 lbs)
(Strathconon) Rotterdam, 9/25.
Nuodes 1,000 bgs (45,873 lbs) (Strathconon) Rotterdam, 9/25.

NEROLY BLANC 1 drns (410 lbs) (Minorya) Rio D Janeir,

NIACIN Lonza 300 dms (36,376 lbs) (Dusseldorf Expres)

600 dms (72,752 lbs) (Ousseldort Expres) Bremer-

Voyager) Bremerhaven, 9/24. NN DIMETHY (ANILINE 2 tok (80,732 lbs) (Koln Express)

NOPYL ACETATE Curto & Funk 3 dms (1,448 lbs) (Britis

Star) Kobe, 9/21.
O ETHYLPHENOL Panalpina 5 dms (0 lbs) (Sea Land

Thien) Rollerdam, 9/29. Savino Del Bene 20 dms (9,782 lbs) (Pilar) Valencia,

90 dms (43,254 lbs) (Ever Greet) Antwerp, 9/24. NONANOL 1 bks (2,205,211 lbs) (Stephanie) Rotte

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lipton Laboratories, producer of a comprehensive line of automotive chemicals is seeking distributors in the following states: Indiana, Michigan, Ohio, Kentucky and Missouri. Candidates should now be calling on car dealers service stations, auto parts stores, etc. Tipton Laborato-rius, Box 248, Lemont, IL 60439, Attn. R. Bolduc, (312)

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Glycerine naturni USP 99.5 — new drums — low low pricos regular supply — available from New Jersey/Baltr more/Houston/West Coast warehouses, Inquire now. Witte C M.R. Box No. 729

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Cosh For your surplus chemicals, resins, colors, pharmacounterfas, dyos, other raw materials, by products, wastes, rusidues and off-spec materials. Morgan Chemicals Inc., 5500 Main Street, Williamsville, NY 04221 (716) 632-4000; Felex 919133.

Realize Top Value from the sale of your surplus Chemi-cals. We buy surplus Chemicals. Plastics, Resins, Waxes, etc. Bormar Chemical Co., P.O. Box 494, Fair Lawn, NJ 07410. Report (2017), 2017, 2018. Tokans (2017) 07410 Phone: (201) 791-2448, Telox: 13-0434.

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Process Equipment for sale: Baker-Perkins Ter-Meer continuoge 316ss, 5/ton/hour capacity with hydraulic push for unloading. Aeromatic fluid bed dryer 316SS, 200 kg/ hours capacity. Baltimore air coil cooling tower 125 ton capacity. All equipment is in excellent working condition. ent is being sold below used equipment cost Call Equipment is 64 818-767-2038

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CHEMICAL MARKETING REPORTER

120 dma (35,048 lbs) (Ham)in Long Beach) Busin, 9/;16. ORTHO TOLUIDINE DIHYDROCHLORIDE Frant mar 1:35 dms (23,095 lbs) (Han)in Long Beach) Busin, 9/;76 OXALC ACID Atlas Intermodal Transport 7:20 dms (40,000 lbs) (Ming Star) Keeting, 9/;21. T.R. America, Chemicals 1,430 lbps (79,445 lbs) (Hamod

SODIUM METAPERIODATE Sodium Met ADDITION TOTAL DESTRUCTION ATTAINED FORMATION 923.
SOLDHAM NAPHTHIDMARE Office Chemicals 600 bg

SOURCEM MAPPET HUDGEACE Office Chemicals 660 bg (38,302 lbc) framery Stary Kobe, 9/21. SOURCE PETER JULY ATE Degressa. 20 bbg (42,857 bg (45,301 lbg) framery Hamburg, 9/23. SOURCE THRESHOT FROSTPHATE bbg 1 bgs (110 bs)(666

Legice of Antworp, 9/23 Legice of Antworp, 9/23 Legical Mind (2015) (4,409 lbs) (Thubisse) Alexander

- drug 1930 - A. A. Cayan 100 bept (5,512 ibs) (Thutmose) Alexandu

of the Alexandria half field 200 bys (11,023 ba) (Thatmos)

(AO, 121 the.) Chert Land Adventur) Ageors, 924 Octood: S. Jackson: 2,640 bgs (132,410 bs)(Sallin)

Free Liquo 5, 6.00 Liqui (215,236 lbs) (Dussedori Essa-

Antivero, 1930 111, Incl. 1,800 hep-(19,858 ke) (Dart Atlantica) Antiver

5,200 (54), (208,009 Hz) (Sea Land Voyage) Rosa

3.700 top. (107.789 lbs) (American Ohlo) Roterts:

4. BOO bigs (150 (50 d27 lbs) (Our soldorf Expres) Arma;

640 bgs (33 J40 lbs) (Tadousz Koscuszk) Bens

720 Ligo (39,174 lbs) (Tadousz Kosciuszk) Brev

Leschace 760 bgs (39,467 lbs) (Koln Express) Ankar

Romara 2,280 (118,770 lbs) (Tadeusz koschszkia-

motharon, 9/23
N.L. Ind. 3.200 hgs. (163,952 lbs) (Altanic Care, Carlhenburts), 9/23
48 ptt (123,964 lbs) (Brotta Thien) Hamburg, 9/3
TITAMI IALSEO HGE LUMPS Sumitrans 120 des/726/
lbs) (Brotta Groverin) Osaba, 9/30.
TBIC J II. ORIO 18 OC TANIJURIC ACID Eurocontal 3/46Lbs) (Lbs) (Brotta Groverin) Carbon Brottans 3/46Lbs) (Brotta Brotta Groverin) Carbon Brottans 3/46Lbs) (Brotta Brottans 3/4)

(30, 1880) - g. Brita Tokyo) Barcolona, 9/21. TBRODE ODOACT, TIC ACID Roussal 120 dms(13,15%,

THE THANGEANNERS 73 does (39,912 lbs) (Kolo Ever

Antwerp, 9/23
FRIMETHER OF PROPANE Leschage 1 cm (42,643)

(Kolo Express) Botterlam, 9/23 TRIOXAD Handel Phoenis Transport 20 dms (0 bilis)

Land Voyagor) Bremeitoven, 9/24.
TRIPOLETER OF STATE Browling Chemical 400%
(41.71 Feb.) (British The oblighting, 9/29)
TURMERIC POWIER Undan Grocories & Spees 2009

(11,464 Ber) (Hoer) Cairn) Dombay, 9/24

U-Z

ULTRAMARINE BLUE Winterkor Clark & Danles 72763

(-JU, BG Thr.) (American Otho) Felixstowe 9/5 ULTBAMADBIL FIGMENT Whiteaker Clark & Dané 15.

URFA FORMALDETIYOF 1,640 bgs (90,388 bg/2

Tokyo) Hatta, 1473 B2O bay, (15, 194 the) (Zun Keptung) Balla, 9/29 B2O bay, (15, 194 the) (Zun Tokyo) Balla, 9/25 B2O bay, (15, 194 the) (Zun Koolung) Halla, 9/29 d Fran (15, 194 the) (Zun Keptung) Halla, 9/29 VIETE, 127 BBO II JOSHF Freen (39,903 ths) (Bota II)

Fortfordam, 9/29) VITAMIND 12-JM Horigers 60 dms (3,571 bs)(Dus##

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(American Matrio) Hong Kong, 9/23 Word Call ASS American 80 days (37,588 bs) (6.5

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(Louis Maersk) Kobs. 9/25.
P HYDROXYBENZOIC ACID Mobay Chemical 600 bg. (34,304 lbs) (Dusseldorf Expres) Antwerp, 9/30 P TOLUENE SULFONYL CHLORIDE Berng Shipp 80 due.

(31,746 lbs) (Ming Star) Kobo, 9/21 PARA ACETAMINOBENZENE SULFONYU. G Mittair 4.10 dots (51,852 lbs) (Ming Star) Kebe, 9/21 PARAAMINO ACETANILIDE 100 dots (13,228 lbs.) (Amor-

And Ecologic, 27/21 1,000 (Triple Size Red) (Ming Star) Keeling, 9/21, Manufacto America 7/0 Egs (39,037 lbs) (Ever Bose) logn Utah) Koba, 9/29.
PARA METHYL BENZYL CHLORIDE Leading Evolts. 10. dms (4,980 lbs) (Ming Star) Yokohama, 97/1 PARA TERT BUTYLBENZALDERYDE 80 dos (35,6.5) Coulter 9/30
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HEATHURIDES IDE Activacy Chemical & Supply 800 is ibs) (Ever Govern) Osako. 9/30. PARACETAMOLE POWDER 720 dnis (46.0 12 lbs) (Amer

kan Utah) Kobe, 9/29.
PARAFFIN PETROLEUM WAX Astor Wox 36 pli (81), 7 30 bs) (American Ohio) Felixstows, 9/26 PARAFORMALDEHYDE Ashland Chemical 8 plt (18.078 ibs) (Sea Land Adventur) Algeoiras, 9/24 PENTAERYTHRITOL Deguesa 881 hijs (44,438 lbs) (1 hart ATiantica) Bremerhaven, 9/23. Montedison 20 pit (40,476 lbs) (Ever Summit) Legition.

PERFLUORO OCTANE SULFONIC ACID Crescont Chemicals 1 bxs (11 lbs) (Dusseldorf Expres) Harri-

burg, 9/30
PERUVIAN LIMEDISTILLED OIL Cirus & Alliad Essentation 8 dms (3,386 lbs) (Santa Rita) Calino, 9/30 PHOSPHORIC ANHYDRIDE 595 dins (40,926 lbs) (Ever

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POTASSIUM FLUOROBORATE La Porto 80 kgs (18,589 lbs) (Atlantic Cartler) Liverpool, 9/22
POTASSIUM FLUOROTITANTE Mittans 680 kgs (38, 150)

POTASSIUM FLUOROTH ANTE MIRRIES COURGED IN THE IDS) (Ming Star) Yokohemia, 9/21.
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24 dms (9.936 lbs) (Hoegh Calm) Padang, 9/24.
O DIANISIDINE Berro Shpg 190 dms (31,497 lbs) (Ming Start Kobe, 9/2). **Custom & Contract** Industrial Materials & Chemicals ☐ TABLETTING BLENDING ☐ PACKAGING To explore problems or projects: Call (201) 267-8888

Waste Deadline Coming Soon

Environmental Protection Agency sent notices to hazardous waste treatment, storage and disposal facilities last week, reminding them that as of Novemher 8, 1986, solvents and dioxin-containing waste must be treated before dis-

Under 1984 amendments to the Resource Conservation and Recovery Act (RCRA), the land disposal of most untreated hazardous wastes must be banned over the next five

The agency's first action under this requirement applies to solvents and dioxin-conaining wastes. Before Nov. 8, EPA says it will issue final treatment standards for these wastes, based on the best demonstrated available technology (BDAT).

In his letter to waste facility operators, EPA assistant administrator for solld waste and emergency response J. Winston Porter says it is expected that some solvent and dioxin wastes will be granted extensions due lea shortage of available treatment capac-

llowever, it is not likely that conceniraled spent solvent wastes will not be granted such an extension, unless these wastes are generated by small quantity gen-

Carbide Specialty

Covinued from Page 4

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working to improve commonner blends of YLDPE, very low density polyethylene, the latest addition to the "Unipol" product line. New power cable research revolves wound developing ultra-pure resin and insulating material, and smooth interfacing tech-

in the industrial cable area, researchers are working on lower emission non-halogenaled flame-retardant PE technology, usng aluminum tribydrate, which, they hope,

gersoll Rand 25 HP, air cooled, air compressor, 100 CFM, 100 PSI.

romator, 100KW, 341,200 BTU's, water-glycol heat transfer system

pper, set for 63 mm, 60 caps per minulo.

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oker model CR bag packer, 3" dia. x 11" long spout, 20-250 lbs. cap Stoker model CR bag packer, 3" da. x 11" long spout, 20-250 ibs. cap Stoker model 15 VR bag packer, 3" da. x 9" long spout, 20-250 ibs. cap Sloker model 15 VR bag packer, 3" dia x 9" long spout, 20-250 lbs cap. FILLER-PAINT

ILLER-PISTON Anderson model 340-4, S/S, 32 oz. piston, cup hiler with plug capper Eigin Single Piston Filler, nickel, 132 oz. cylinder, noconveyor. Eigin Twin Piston Filler, standess steel, 2-70 oz. pistons

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disposable packaging market. The specialties unit is also said to be experimenting with hexene as an alternative to butene comonomer. Carbide says its lines of VLDPE, first marketed in 1984, show a high degree of inherent flexibility with high envirommental stress crack (ESC) resistance, and are expected to capture a share of markets now dominated by polyurethane, thermoplastic clastomers, and vinyl acetate copolymer blends, including pond lining, flexible

will take over PVC and PTFE uses in cables.

Their UV-degradable polyethylene

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hose and tubing.

Interior Department's minerals management service is requesting nominations on specific areas to be considered for a sulfur lease sale in the Central and Western Gulf of Mexico. This initial step in presale planning comes after responses were received on a request for comments issued in June.

The last Federal lease sale for sulfur was held in 1969, but during the late 1960's world oversupply of sulfur developed, depressing the fertilizer market and U.S. sulfur production. This situation continued until 1976 when consumption in the United States exceeded supply. The US Bureau of Mines now predicts a 3.2 percent annual increase in sulfur demand until the year 2000.

"Since 1976, the United States has been a net sulfur importer. The discovery and development of additional offshore reserves can help meet U.S. requirements for a cost-competitive domestic source," says MMS director William D. Bettenberg.

The general area of the call covers the central and western portions of the Gulf of Mexico. The department is focusing its attention on blocks lying in waters less than 400 feet deep. Deferred are two sensitive blocks in the Flower Garden Banks.

ADVERTISERS' INDEX

A.1 Chamballa.	
A-1 Chemical Equipment Co	McIntyre Chemical Co21
	Meer Corporation38
	J. Little Mercer Co., Inc
	Milos Laboratorios, Inc
	Montedison USA, Inc
	Napp Chemicals, Inc
	Netional Magnosia Chemicals30
Alexander Chemical Corp	Occidental Chemical Corp
Angus Chemical Company36	Oriex Chemicals Corp
Arizona Chemical Company	PPF International
	The PQ Corporation
	PVO
	Perry Equipment Co. Inc54
Balfour, Maciaine Chemicals Inc28	Pfizer inc
CdF Chimie North America, Inc	PMP Fermentation Products, Inc18
CP Chemicals, inc37	Prior Chamical Coproration1
CPS Chemical Co	Proctor & Gamble10
R.P. Cargille Laboratories, Inc56	R.I.T.A. Corporation
Celanese Chemical Company16	Reed Lignin
	Relily Tar & Chemical Corporation15
	Rhone-Poulencinc14
Colonial Terminals	Rit-Chem Co. Inc
Concord Chemical Company, Inc	Robeco Chemicals, Inc
Corco Chemical Corp24	Ruelgers-Nease14
Davos Chemical Corporation	SSF Dottikon16
Deepwater Chemical Co., Ltd 60	SRS, Inc
Deguasa Corporation	S.S.T. Corp
Eastman Kodak Co	Shell Chomical Company25,27
Equipment Equities Corporation	Werner G. Smith, Inc
Exxon Chemical Co	The Southland Corp
xxon Company, U.S.A	SpecialtyChem Products Corporation20
al/mount Chemical Co., inc	Spactrum Chemical Mfg. Corp27
	Standard Chlorine Chemical Co., Inc
igalina lutotustional inc	Stuart Equipment Co
aurius Crieffilichis, Inc	Tanabe U.S.A., inc
Jourge Eduidhight and Markinger Co. #4	Tennessee Chemical Company31
areen, n.w. & Co., Inc.,	Texaco Chemical Company
1941 EQUIDMONI CO., Inc.	Thompson-Hoyward Chemical Co
Tarowicke Chemical Co	Thorson Chemical Corporation60
TBICD, INC	Union Carbide Corp
toxcer Corporation	Upjohn Chemical Company13
UI AMBRIGA	U.S. Borax & Chumical Corporation1
nternational Dismaniling &	U.S. Industrial Chemical Co., Div. National
Machinary Corp	Distillers & Chemical Corp6
Mernaugnoi-Matey Tenk Terminala 45	Universal Process Equipment, Inc 53
archem industries	Videx Machinery Corp51
All Cremie Corp.	Virginin Chemicals inc
MOII FING Chomicals Inc	Wabash Power Equipment Co55
Indau Chemicals inc	Jim Walter Resources, Inc
.09n Equipment Supply Co	Wesco Technologios, Ltd
OUISIBRA Chemical Equipment Co. Loc. E.	Wilco Chemical Corp
Inchingry & Equipment Corp	White Chemical Corporation
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FADE-OMETER Allas Electric Devices Fade-Ometer, model 18-FT FILLERS-BAG

rosa fillar, model PF-9

Twin Piston Filler, stainless steel, 2-70 oz. cylinders Parsons model C, 10 hoad filler, 7-14 oz. fill. B.F. Gurnp Edibauer-Duplex nel weigh, size 3, semi-automatic. Parsons Model C, 6 head, 7-14 oz. hiler FILLERS-TUBE

20 HP exp. proof, 125 RPM output, class 3, horizontal parallel shaft, 20-10 HP XP, horizontal, parallel shaft gearhead, 280-140 output RPM 7½ HP XP, horizontal, parallel shaft gearhead, 25 output RPM.
GRANULATOR—OSCILLATING Cherry Burrell Model 542, S/S oscillating granulator. Cherry Burrell Model 542, S/S oscillating granulator.

Cherry Burrell Model 542, 5/S oscillating granulator.
Stokes oscillating granulator, model 43A, carbon steel construction.
Stokes oscillating granulator, model 43A, carbon steel construction. Owens tillinois kner seal gluer, for lars and bottles. Owens Illinois inner seal gluer, for lars and bottles. HOMOGINIZERS

ilzer, 2,500 GPH @ 3,000 PSI, 75 HP. HOT OIL UNITS Sterico 12 KW hot oil unit, 440 volts. KETTLES-MIXING

Hamilton 200 gallon S/S kettle, double motion, 2 HP VS, 45 PSI jacket. Groen 150 gallon S/S kettle, jacketed, 11/2 HP TA aç LABELERS-AUTOMATIC GLUE Burt roll through labeler, model AU 404. LABELER-PRESSURE SENSITIVE Fasson model M-11-R pressure sensitive labeler, 5" max, web width. Fasson model M-11-R pressure sensitive labeler, 5" max, web width. LABELER-SEMI-AUTOMATIC Labelette model 1418 labeler, hot mait, ½ phrt to 1 gal. w/ears. LID DROPPERS & CLOSERS

Eigin model S lid dropper and closer, 4 HP.

MORROUSE-Cowies sand mill, model 12-30, closed head, 4t MILLS—STEEL BALL Page 12-20, closed head, 4t MILLS—STEEL BALL Page 13-20 gallon batch, 20 HP XP. Epworth 4'x5' steel ball mill, 320 gallon batch, 20 HP XP. Patterson 2'h'x3' steel ball mill, 74 gallon batch, 7'k HP XP. Patterson 2'h'x3' steel ball mill, 74 gallon batch, 7'k HP XP. Patterson 2'h'x3' steel ball mill, 74 gallon batch, 7'k HP XP. Patterson 2'h'x3' steel ball mill, 74 gallon batch, 5 HP XP. Patterson 2'h'x3' steel ball mill, 74 gallon batch, 5 HP XP. MIXERS-BAKERY WIXER-DOUBLE ARM Readco 10 gal. 316 stainless steel double arm r MIXERS-DOUBLE RIBBON

MILLS-COLLOID Patterson Ind Tri-Homocolloid mill, 316 S/S, size 10, 40 HP. ri Homa Corp. colloid mill, 316 S/S, Size: 10, 40 HP Promier 316 S/S colloid mill, 10" dia., model KSH, 40 HP. Morehouse B-1400 stone mill, 20 HP explosion proof. Tri-Homo 5" colloid mill, stainless steel, 5 HP explosion proof. MILL-HAMMER

Pulverizer model 3TH, stirrup swing hammers, 30 HP. Mikro Pulverizer model ISH, stainless steel, stirrup swing h

MILLS-KADY Kady mill model 2 BH, 100 gallon batch, 40 HP explosion proof. MILLS-PEBBLE

Patterson 6'x5' pebble mil, 504 gallon batch, 25 HP explosion proc J.R. Alsing Engineering 3'x4' pebble mil, 92 gal. batch, 3 HP XP. Norton pebble mil, 38"x42", 126 gallon batch, 5 HP explosion pro Paul O. Abbe 30" dis x 36"L, pebble mill, 45 gal. batch, 2 HP TEFC. Paul O. Abbe 21/2" x 31/2" pebble mill, 45 gal. batch, 10 HP XP. Faul C. Aube 21st X519 people mill, 45 gal batch, 10 HP XP.
Steveco 20" x20" peoble mill, 18.5 gallon batch, high stands, 2 HP
U.S. Stoneware 27 gat peoble mill, frame and reducer only,
Used Paul O. Abbe peoble mill, 7 gallon total, with ½ HP drive.
Paul O. Abbe 16" x24" peoble mill, 12.5 gallon batch, 1 HP.

tevco 32" x36" pebble mill, 75 gailon baich, high st MILLS-THREE ROLL J.H. Day 16"x40" three roll mill, 20 HP explosion proof. Kent 4"x8" three roll mill, 34 HP explosion proof. Kent 4"x8" three roll mill, 4 HP explo-

MILLS-TWO ROLL Thropp 6"x12" two roll mill, 71/2 HP. MILLS-SAND & SHOT Chicago Boller sand mill, model 16P. Chicago Boller sand mill, model 3 gallon standard. Premier 16 gallon closed head medie mill, 50 HP explosion proof dr Morehouse-Cowles sand mill, model 12-30, closed head, 40 HP XP

Falcon 39 cu. ft., 8/S, dauble, ribbon blender, jeck Readco 10 cu. ft. S/S dauble ribbon blender, 3 HP. MIXERS-PADDLE Paddle Blender, 113 cu. ft., carbon steel, 16 HP

MIXERS-PONY Kent 60 gailon pony mixer, 71/2 HP XP, planetary action, 4 lubs.

MIXERS—STATIONARY Patterson Unipower, 10 HP TEFC, 39 RPM. Patterson Unipower, 715 HP TEFC, 28 RPM. MIXERS-TWIN SHELL

Patterson-Kellay Ivvin shall blender, S/S, 1 cu. ft., L/S bar, UNUSED Patterson-Kelley Ivvin shall blender, S/S, 1 cu. ft., 550 lbs/cu. ft., XP OVENS-GAS

Greve gas ovan, max. temp. 850 deg. F, interior 38"W x 26" H x 20"D.

OVENS-ELECTRIC
Blue M 24" x 24" x 48" Interior, 318 deg. C
Blue M 25"W x 38" H x 20"DS/S Interior, 850 deg. F.

Despatch 37% "W x 37%" H x 25"D interior, 850 deg. F.

PUMPS-CENTRIFUGAL, S/S
Trench & Marine 2" x 13" SS centrifune layers. THE TETRIFUE Trench & Marine 2" x 114" \$15 centrifugal pump, 1HP TEFC VS PUMPS-POSITIVE DISPLACEMENT PUMPS-POSI 114E DISPLACEMENT Viking 3". model LL4124R, pressure rehet valve, 3 HP explosion proof Viking 2". model K 74288, pressure relief, 5 HP explosion proof. PUMPS-VACUUM Stokes model 8 12G MICROYAV vacuumpump, 500 CTM, 25 HP. REACTOR-STAINLESS STEEL

ALEACTOH—STAINLESS STEEL

316 S/s reactor, 300 gal., 14 //14 7 PSI, 3 HP explosion proof.
Paterson Foundry 50 gallon, 316 S/s reactor, 100/30 PSI, 2 HP
Expert 75 gallon, 304 stainless steel reactor, 275/15 PSI, 3 HP XP VS.
Expert 76 gallon, 304 stainless steel reactor, 275/15 PSI, 3 HP XP VS.
SIFTERS/SEPARATORS
Gump 316 S/s pressure silter, model CP-32, 36" dia., 44HP, sanitary.
Sveco 60" dia C/S, single deck, open top, 24/1 HP.
TANKS-CARBON STEEL, MIXING
Imperiel 1,000 gallon carbon steel inhims tent with 5 HP XP VS. 40.00.

Imperial 1,000 gallon carbon steel mixing tank with 5 HP XP 46 RPM Imperial 1,000 gallon carbon steel mixing tank with 5 HP XP 48 RPM Patterson 850 gallon carbon steel mixing tank with 5 HP XP 300 RPM

TANKS-JACKETED Groan 430 gallon, 304 S/S tank, 15 PSI jacket.
Nooter Mig Co. 180 gallon 304 S/S tank, jackted, 14 HP.
United Utensis 100 gal., 316 S/S tank, 150 PSI jacket.
TANKS—STAINLESS ST., MIXING B.000 gallon S/S mixing tank, closed top, cone bottom, 14 HP 5.75 RPM.
TANKS-STAINLESS ST. STORAGE Hobart 80 quart mixer, model M-802, 3 HP XP, 4 speed, tall pedest UNSCRAMBLER Northern Conveyor 6 Isnaunscrambles 2001. 14,8 dia.x 19 (Northern Conveyor 6 Iane unscrambler, 29" wide. WEATHER-OMETER Areas Weather-Ometer model XW-WRI, auto humidity, chart recorder

chiller. Atlas Weather-Ometer model XW-R, auto hunidity control, cher recorder. MISCELLANEOUS

Schmutz Mig. Co., inc. top grain offset printer, model CM24, 24" wide.

(312) 473-4500

Stuart Equipment Co.

North Chicago, Illinois 60064-0469

October 27, 1986

CHEMICAL MARKETING REPORTER

Voyageri Rollerdam, 9/24.

OCOTEA CYMBARUM OIL SASSAFRAS OI 138 dms (48,069 lbs) (Santa Catarina) itajai, 9/24.

OLEORRESIN SPANISH PAPRIKA Torna Trdg 6 dms (2,910 lbs) (Dragor Maersk) Varenda, 9/24.

ORTHO PARA TOLUENESULFONAMIDE Taub Hummel & Schnall 80 bgs (35,628 bs) (Hanjin Long Seach) Busan, 9/26. October 27, 1986

PROCESSING

SUPPLY	
PRODUCER	CAPACITY*
Du Pont, Memphis, Tenn	125
FMC, Bayport, Tex	95
FMC, South Charleston, W. Va.	85
Interox, Deer Park, Tex	110
•	
Total	413

Millions of pounds per year, 100 percent basis. Du Pont Canada is building at 80-million-pound per yera plant in Maitland, Ontario, due on stream January 1987 FMC expanded capacity at its Bayport facility by 25 million pounds in the third quarter, 1985, and again by 10 million pounds early this year. FMC has postponed construction of a 22-million-pound-per-year facility in Squamish, B.C. Interex completed a 22-million-pound expansion in July 1985. Degussa Corporation is constructing an 80-million-pound-per-year plant in Mobile, Ala., due on stream in early 1987 Oxychem Canada, a venture involving C-I-Land Atochem and L'Air Liquid of France s building a 44-million-pound-per-year plant in Becancour, Quebec, scheduled for completion in September 1987.

1985: 300 million pounds; 1986: 320 million pounds; 1990: 410 million pounds. (Canada and US)

Historical (1976-1985): 4.4 percent per year; future: 6 to 8 percent per year through 1990.

Historical (1952-1986); High, 45c, per pound, 70 percent, tankcars, f.o.b. frt. equald; low, 23c. per pound, same basis. Current: 45c. per pound, same basis.

Chemical synthesis, 24 percent; pulp and paper, 23 percent; environmental ises (includes municipal and industrial water treatment and geothermal steam treatment), 18 percent; textiles, 14 percent; mining, 3 percent; electronics, 3 percent; miscellaneous (including food and cosmetic uses and the distributor market), 15 percent.

STRENGTH

Hydrogen peroxide use is growing rapidly in Canada as new thermomechanical wood pulping mills come on stream. Environmental applications based on peroxide's non-polluting oxidation ability are spreading through new applications and increased EPA pressure on industry. Although small volume-wise, special markets such as asceptic packaging are growing quickly.

WEAKNESS

New peroxide plants in the US and Canada will create significant overcapacity until demand can catch up to supply. The uranium mining market is flat and geothermal use is declining in the face of an alternative technology.

Existing markets will keep peroxide growing well, and potential applications could produce growth well above current projections. Most promising is home laundry detergent use of peroxide derivatives as bleaching agents. Products are currently being test marketed by major detergent companies. Also possible are treatment of waste cellulose for animal feed use, an application now in the R&D stage, and bioreclamation of organically contaminated soil.

CHEMICAL PROFILE BOOKSHELF | | JOBS & PEOPLE {{{ }}}} JOBS & PEOPLE

Chemical Dictionary

The expanded and revised fourth edition of this chemical dictionary includes appropriate the expanded and revised fourth edition of this chemical dictionary includes appropriate the expanded and revised fourth edition of this chemical dictionary. mately 100,000 entries from chemistry, biology, physics, mineralogy and metalling well as descriptions of the most important manufacturing processes and machinering materials and finished products and terms used in every phase of engineering technical development.

For chemical compounds, the book provides chemical name, synonymous and structural formula, molecular weight, physical properties, specific gravity, melligs boilings points, solubilities and uses.

A special feature is the compilation of tradename or proprietary products in the factorial feature is the compilation of tradename or proprietary products in the factorial feature is the compilation of tradename or proprietary products in the factorial feature is the compilation of tradename or proprietary products in the factorial feature is the compilation of tradename or proprietary products in the factorial feature is the compilation of tradename or proprietary products in the factorial feature. of synthetic resins and plastics, foods, drugs, cosmetics, metals, rubber, panks varnishes, detergents, petroleum, electronics and radioactivity.

The nomenclature is that generally adopted by the chemist and engineer and m references are included and arranged so that desired terms can be located with minimum of effort.

*CONCISE CHEMICAL AND TECHNICAL DICTIONARY, Edited by H. Bennett Club 114 inches. 1,269 pages. Chemical Publishing Company, 912 Cherry Lane, Vestal, N.Y. 13860, 881.

Quality Assurance

Both purchasers and suppliers of manufactured products of all kinds need assets that products will perform their intended function safely and with an acceptable of Richard Meer, who has been appointed president of reliability. Providing this assurance requires certain specific management and the formal discipline of quality assurance provides the framework for these with Meer Corporation for 18 years and had preamd the formal approach has become increasingly necessary for a number of reason determines & Co. contractural requirements, the need to provide evidence of meeting statutory and sy latory requirements and above all, the safety-related and economic consequents LOUIS L. LOSSBROCK has been named product failure.

Criteria for management actions in respect to quality assurance are defined: processing group of Nalco Chemical Company... JAMES A. NAWROCKI has been appointed portfolio manager in the corporate preted" in the context of particular types of manufactured product.

This book* discusses and analyses the unique characteristics of this industry. Chemical Company... JOHN BURROWS has relate to the quality assurance approach and then makes a critical analysis of the been named manager of FMC Corporation's quality assurance criteria and how they should therefore be applied. The almostic Marine Colloids Division. is to give guidance to engineers/managers associated with the process plant pro: LLOYD A. HUDSON has been appointed and practices in the context of their industry. The book should be helpful in conjust product manager of ultra-high molecular with relevant quality assurance standards and specifications.

*QUALITY ASSURANCE IN PROCESS PLANT MANUFACTURE By J.H. Rogerson Chell inches. 159 pages. Elsevier Science Publishing Company, 52 Vanderbilt Avenue, New York named national sales manager at the Agri-

Non-Prescription Drugs

The American Pharamceutical Association has published this newly revised updated eighth edition of its handbook* on non-prescription drugs. Pharmacists: GARY MIERTSCHIN has been appointed dicians and other health-care professionals have been using this text for over two and it has become the standard classroom text in pharmacy courses dealing mill field. Four years of research, editing and review have been devoted to this new di All chapters have been revised and a completely new one (on antipyretics) half added. New illustrations, anatomical drawings and full-color photographs are all cluded. The handbook contains the latest information on the Food & Drug Admis tion's review of over-the-counter drugs as well as patient assessment and consultation The index has been expanded and all non-proprietary ("generic") and trade name

drugs, in addition to disease states and symptoms, have been cross-referenced Polythele Marie and Symptoms and Symptoms and Symptoms and Symptoms and Symptoms and Symptoms are sent to be a symptom and symptoms are sent to be a symptom and symptoms. tables listing non-prescription drugs and their ingredients have been updated. *HANDBOOK OF NONPRESCRIPTION DRUGS, Cloth. 8½ X 11½ Inches, 741 pages April Pharmaceutical Asociation, 2215 Constitution Avenue, N.W., Washington, D.C. 20037, \$700.

Scherer Elects Regional Presidents

R.P. Scherer Corporation has elected Kenneth R. Monroe, Jr. president of its major domestic subsidiary, R.P. Scherer North America, and Barrie P. Webb Pacific re-

Mr. Monroe joined R.P. Scherer after 20 years of experience in both the domestic and pharmaceuticals industries as assistant to the president last June. R.P. Scherer North America is headquartered in Clearwater,

Mr. Webb, who had been president of R.P. Scherer North America, will be overseeing the company's softgel operations in a geographic area including Australia, Japan and



rector of marketing services at Soltex Polymer Corporation... BRUCE R. OLSON has been named business manager of emulsions within the chemicals group of Air Products &



Chemicals, Inc... DAVID T. DAVIS has been elected vice-president and treasurer of A.H.

JANET E. MANN has been named general manager of the chelate chemicals management unit in organic chemicals at Akzo Chemie America... GREGORY T. COOPER has been appointed general manager of the distribution group at Chemtech Industries,



Matthew A. Taylor, who has been named president of CYRO industries. He leaves the Chemical Products Division of American Cyanamid Company where he was president to assume the position with CYRO, a partnership of Cyanamid and Rohm GmbH of West Germany.

Inc... JOHN J. EHLIG has been named sales representative for the chemical catalysts and processes department in Englehard Corporation's Specialty Chemicals Division.

WALTER KOSACHUK has been appointed national sales manager for railroads for E.I. du Pont de Nemours & Co.'s maintenance finishes grouip... EDWARD A. SCHMITT has been named manufacturing manager for Georgia Gulf Corporation's commodity chemicals... KEVINM, CURRY has been appointed area manager for Illinolis at A.L. Laboratories, Inc.

DAN GILBERT has been named technical director at Surface Protection Industries, Inc. in Los Angeles, Calif... CAREY GLOUSER has been appointed sales representative for Central and Northern Indiana at A.L. Laboratories, Inc... DONALD E. SAUNDERS has been elected executive



Salsbury Chemicals Appoints Managers

Salsbury Chemicals, a unit of Salsbury Laboratories, has appointed Sheldon Gelman Northeast marketing manager and Warren Dunkel Midwest marketing manager.

The appointments continue the company's expansion of its chemical manufacturing services. It expects to service the Southeast by year-end when an office in Atlanta is

Mr. Gelman joins Salsbury from Stauffer Chemical where he held various positions for 20 years. Mr. Dunkel joined Salsbury in 1970 in its research and development department



vice-president and chief financial officer of

KALMAN E. BUCHOVECKY has been appointed market development manager and THOMAS L. FRANCIS technology manager In the Alcoa Advanced Ceramics Division at



Aluminum Company of America... DAVID K. HAMEL has been named sales representative for the Adhesives Division of National Starch & Chemical Corporation.

MYRON A. FRANK has joined Stepan Company as director of marketing in industrial chemicals, BURT M, LIKE has joined as product manager, and FREDERICK G. RE-HBEIN has also joined as product manager.

MEETINGS CALENDAR

THIS WEEK

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS & COLORISTS, international conference and exposi-tion, Westin Peachtree Plaze Hotel, Atlanta, Ga., Oc-

NOVEMBER

AMERICAN PETROLEUM INSTITUTE, annual meeting. SAN Francisco, Calif., November 9-11.
AMERICAN SOCIETY FOR TESTING AND MATERIALS,

7th Symposium on Pesticide Formulations and Appli-cation Systems Phoenix Hillon, Phoenix, Ariz...

CHEMICAL MANUFACTURERS ASSOCIATION, Chemical industry conference, Palmer House Hotel, November 17-18, Chicago, III.
CHEMICAL MARKETING RESEARCH ASSOCIATION,

business school, personal computers in the workplace, Scanticon Executive Conference Center,

COSMETIC, TOILETRY & FRAGRANCE ASSOCATION.

entific conference and exhibit, J.W. Marriott Hotel, Washington, D.C., November 2-5.
DRUG, CHEMICAL & ALLIED TRADES ASSOCIATION,

DRY COLOR MANUFACTURERS ASSOCIATION, techni-

cal seminar, requirements under the Toxic Substances Control Act. Hilton Gatew Newark, N.J., November 12. EUROPEAN PETROCHEMICAL ASSOCIATION, Intermodal transport seminar, Frankfurt Sheraton Hotel,

Frankfurt, West Germany, November 20-21. FERTILIZER ROUND TABLE, Sheraton Inner Harbor Hoel, Baltimore, Md., November 17-19 FRAGRANCE MATERIALS ASSOCIATION OF THE UNITED STATES, 10th international congress of ea-sential cits, fragrances and flavors, Omni Shoreham

Hotel, headquarters hotel, Washington, D.C., Novem-K-'86, 10th international trade fair for plastics and rubber, Dusseldorf, West Germany, November 8-13, LATIN AMERICAN PETROCHEMICAL ABSOCIATION,

sixth annual meeting, Rio Palace Hotel, Rio de Janeiro, Brazil, November 23-26. NATIONAL PAINT & COATINGS ASSOCIATION, 99th

annual meeting, Atlanta Hilton Hotel, Atlanta, Ga., SALES ASSOCIATION OF THE CHEMICAL INDUSTRY,

LATER ON

AMERICAN INSTITUTE OF CHEMICAL ENGINEERS center for chemical process safety, international con ference on chemical safety Issues, Omni Shoreham Hotel, Washington, D.C., February 3-5.

Hotel, Weenington, D.C., February 3-5.
CHEMICAL MARKETING RESEARCH ASSOCIATION,
Houston Meeting: "The US Chemical Industry-Responding to Change." Westin Galleria Hotel, Houston,
Tex., February 4-5, 1987.
CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION.

ATION, 73rd annual meeting, Marriott's Harbor Beach Resort, Fort Lauderdate, Fla., December 7-11. CHLORINE INSTITUTE, Writer meeting, Mayilower Hotel, Washington, D.C., March 15-19.

DRUG, CHEMICAL & ALLIED TRADES ASSOCIATION, 61st annual dinner, Waldorf-Astoria Hotel, New York.

INSTITUTE OF GAS TECHNOLOGY, 11th and

NATIONAL ASSOCIATION OF TORS, 15th annual meeting, Ritz Cattor to tel, Naples, Fla., December 2-6.

SALES ASSOCIATION OF THE CHEMICAL MISS.

annual Christmas party, New York Hanker annual Christmas party, New York! York, December 18; education com "The Psychology of Selling," Trieding Brook, N.J., December 18. Meeting and Industry Convention and Club, Boca Raton, Fig. January

SOCIETY OF THE PLASTICS INDUST conference of the rainforced please and institute. Cincinnal Convention & Edition Cincinnati, Ohio, February 2-8.

FERTILIZER INSTITUTE, 1987 annual meeting, in Orlando World Center, Orlando, File, February 1. Orlando, World Center, Orlando, File, February 1.

STITUTE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS TECHNOLOGY, THE STATE OF GAS T e. Wash., as sales representative for Asales of Washington and Oregon. Avecor ples color concentrates, liquid disper-Me and blended dry colors to the plastics

1570L-MYERS US Pharmaceutical Brook, N.J., December 18.

Brook, N.J., December 18.

SOAP AND DETERGENT ASSOCIATION BOOK Reserved in Evansville, Ind., has formed division, Bristol-Myers Pharmaceutiion, to market the company's line of pharmaceutical products. The new ill sell the products under the "Apotheabel formerly used by Bristol Laborade lo sell generic antibiotics to large

sales manager of the mining and mineral

portfolio investments department of Dow

weight polymers and polypropylene resins at

Himont USA., Inc... JOHN PREST has been

cultural Division of Hoechst-Roussel Agri-

Vet Company... KENNETH A. KRICK has

been elected president and chief executive

officer of General American Transportation

Corporation, effective 1987.

supply an operator training simulator for Indian Petrochemicals Corporation Ltd., Baroda, India. The simulator will be used to train plant operators in analog instrumentation and distributed digital control. Indian Petrochemicals has also licensed Simcon's proprietary simulation software.

ENZON INC., South Plainfield, N.J., says it has been awarded a research grant from the National Institutes of Health to develop PEG-uricase for the treatment of hyperuricemia and gout. Clinical studies at Veteran's Administration Hospital in East Orange, N.J., indicate that PEG-uricase is

REICHHOLD CHEMICALS Inc.'s Reactive Polymers Division has introduced what the company describes as the first non-blushing, non-staining polyester resin for use in auto body patch compounds. According to Reichhold, the resin has been shown to be unaffected by UV attack with urethanes and most other commonly used top coats. UV attack is the most common cause of body patch blush-

WITCO CORPORATION's Humko Chemical Division has introduced a fatty bisamide designed as a lubricant for powdered metal compounds. The "Kemamide" product is a micronized synthetic wax which burns clean during processing, leaving no residue, according to Wilco. The product is a useful molding aid because it allows dense compacting of the powdered metal, Witco says, and also offers a highly uniform particle size and a high meiting point.

ELDIB ENGINEERING & Research Inc. Berkeley Heights, N.J., has published a guide to US injection molders of automobile parts, containing names of injection molders who are potential partners in joint ventures with primary manufacturers and secondary subcontractors seeking to set up plants quickly in the US for domestic and foreign consump tion of auto parts.

October 27, 1986

CHEMICAL MARKETING REPORTER

CHEMICAL MARKETING REPORTER

BUSINESS BRIEFS